



**REPORT**

# 2023 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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July 31, 2023



## Certification

This 2023 Annual Groundwater Monitoring and Corrective Action Report, Plant McDonough-Atkinson Ash Pond 2 and 3/4 (AP-2,3/4) 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), specifically § 257.90(e), and the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10 by a qualified groundwater scientist or engineer with WSP USA Inc. I hereby certify that I am a qualified groundwater scientist, in accordance with the Georgia Rules of Solid Waste Management 391-3-4-.01.

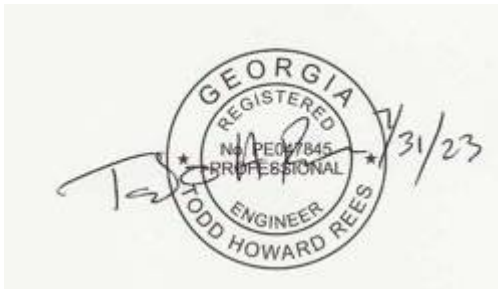
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## Executive Summary

This summary of the *2023 Annual Groundwater Monitoring and Corrective Action Report* provides the status of the groundwater monitoring and corrective action program from September 2022 through June 2023 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 WSP USA, Inc. (WSP) (formerly Golder Associates USA Inc.) on behalf of Georgia Power to meet the requirements listed in Part A, Section 6<sup>1</sup> 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) 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 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 2023 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 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**

<sup>1</sup> 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.

## 2022-2023 Annual Groundwater Monitoring Activities

There were no changes to the AP-2 and 3/4 certified detection monitoring network during this reporting period. Assessment well B-125D was installed during this reporting period. Groundwater monitoring semi-annual sampling events for AP-2 and 3/4 were conducted in September 2022 and January-February 2023. Groundwater samples were collected and analyzed for Appendix III<sup>2</sup> and Appendix IV<sup>3</sup> required monitoring parameters.

Analytical data from the September 2022 and January-February 2023 monitoring events has been statistically analyzed in accordance with the Site's certified statistical analysis method. For the September 2022 and January-February 2023 monitoring events, 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.

Appendix III Constituent	September 2022 SSIs <sup>[1]</sup>
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-4, DGWC-5, DGWC-9, DGWC-10, DGWC-11, DGWC-12, DGWC-19, DGWC-20, DGWC-21, DGWC-22, DGWC-23, DGWC-48
Chloride	DGWC-4, DGWC-5, DGWC-8, DGWC-9, DGWC-11, 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-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-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-11, DGWC-12, DGWC-15, DGWC-17, DGWC-19, DGWC-20, DGWC-21, DGWC-22, DGWC-23, DGWC-42, DGWC-48
Appendix IV Constituent	September 2022 SSLs <sup>[2]</sup>
Arsenic	DGWC-9
Beryllium	DGWC-5, DGWC-9, DGWC-10, DGWC-47, DGWC-48, B-92, B-93, B-115D
Cobalt	DGWC-8, DGWC-9, DGWC-10, DGWC-19, DGWC-20, DGWC-47, DGWC-48, B-56, B-63, B-93, B-104D, B-115D
Lithium	DGWC-47, DGWC-48, B-115D, B-120D
Radium 226 + 228	B-104D, B-109D
Appendix III Constituent	January-February 2023 SSIs <sup>[1]</sup>
Boron	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
Calcium	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-13, DGWC-15, DGWC-17, DGWC-19, DGWC-20, DGWC-21, DGWC-22, DGWC-23, DGWC-42
Fluoride	DGWC-9, DGWC-10, DGWC-20, DGWC-47, DGWC-48
pH	DGWC-2, DGWC-5, DGWC-8, DGWC-9, DGWC-10, DGWC-17, DGWC-19, DGWC-20, DGWC-42, DGWC-47, DGWC-48

<sup>2</sup> Appendix III: boron, calcium, chloride, fluoride, pH, sulfate, and total dissolved solids

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

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
<b>Appendix IV Constituent</b>	<b>January-February 2023 SSLs<sup>[2]</sup></b>
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-92, B-93, B-104D
Lithium	DGWC-47, DGWC-48, B-120D
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 Regional Screening Level (RSL), or (ii) background levels for constituents where the background level is higher than the MCL or RSL.
- [3] An ASD for the SSLs of Radium 226 + 228 has been documented and approved by GA EPD on June 15, 2023.

The Appendix IV SSLs for arsenic, beryllium, cobalt, and lithium are horizontally and vertically delineated in Site detection and assessment wells and downgradient surface water sampling to below the GWPS. Surface water samples collected in October 2022 and in February 2023 were non-detects for arsenic, cobalt, and lithium consistent with previous observations.

Radium concentrations at B-104D and B-109D are recent SSLs and are being reviewed by Georgia Power as per the guidance and timelines specified in § 257.95(g). An Alternate Source Demonstration (ASD) for radium was initially submitted to GA EPD on April 29, 2022 and a revised ASD submitted to GA EPD on July 26, 2022. Based on Site investigation data, additional supporting evidence as to the natural presence of combined radium, a *Supplemental ASD for Combined Radium* was submitted to GA EPD on May 22, 2023 (WSP, 2023c), and was approved by GA EPD on June 15, 2023. 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 GA EPD semi-annually. A *Draft Remedy Selection Report* is being prepared by Georgia Power and will be submitted to GA EPD under separate cover on August 31, 2023.

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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 *2023 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 2022 and January-February 2023 at AP-2 and 3/4. Activities completed at Plant McDonough's Ash Pond 1 (AP-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, Smyrna, GA 30080), 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 the 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 for AP-2 on December 7, 2015, and for AP-3/4 on December 8, 2015, 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-2, and 3/4 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 has been established for AP-2 and 3/4 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* (WSP 2023b).

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 referred to as 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. In addition, deeper bedrock (i.e., greater than approximately 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 Georgia-licensed Professional Engineer licensed 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 Figure 3.

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

## 2.0 GROUNDWATER MONITORING ACTIVITIES

The following section describes monitoring-related activities for sampling performed at the Site from September 2022 through June 2023. Routine groundwater sampling was performed in September 2022 and in January-February 2023 in accordance with 40 CFR § 257.93. Groundwater monitoring field forms from these monitoring events are provided in Appendix A and the analytical data reports are presented in Appendix B.

## 2.1 Monitoring Well Installation and Maintenance

There were no changes to the detection groundwater monitoring system during this reporting period. September 2022 and January-February 2023 field activities included visual inspection of well conditions prior to sampling, recording conditions around each well, and performing exterior maintenance to provide safe access for sampling. The well condition inspection forms are included in Appendix C.

Assessment monitoring well B-125D was installed in March-April 2023 to vertically delineate lithium in well B-120D. The well installation report is attached to this report.

Monitoring wells are inspected semi-annually to determine if any repairs or corrective actions are necessary to meet the requirements of the Georgia Water Well Standards Act (O.C.G.A. § 12-5-134(5)(d)(vii)). Monitoring wells were inspected, necessary corrective actions were identified and subsequently completed, as documented in Appendix C. This work 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 was conducted for AP-2 and 3/4 in September 2022 and in January-February 2023 in accordance with § 257.93 and GA EPD rule 391-3-4-.10(6)(a). Samples were collected from each well in the certified monitoring network and the established assessment monitoring network for AP-2 and 3/4 (Table 1). The location of each of these monitoring wells is shown on Figure 3. 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 2022 and the January-February 2023 semi-annual sampling events, groundwater samples were collected for Appendix III and Appendix IV constituents. Results of the sampling activities are discussed in Section 5.0, and the data are presented in Appendix B.

## 2.3 Additional Sampling

Additional non-routine 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 AP-2 and 3/4. Additional sampling was conducted at upgradient monitoring wells B-116D, B-117D, B-118 and B-119D in September 2022 to characterize background conditions at the Site. Downgradient wells B-115D and B-123D were sampled in September 2022 and February 2023. Each of these wells have since been re-designated from assessment wells to piezometers and will no longer be monitored for compliance purposes. Well B-115D did not achieve vertical delineation and well B-122D was designated as the downgradient vertical delineation well. Well B-123D is not suitable as a compliance monitoring well due to its 50-foot screen. Additionally, neither of these wells were able to produce viable amounts of water, representative of an aquifer. Additional analyses were also performed on the detection and assessment monitoring well samples to characterize the groundwater chemistry as part on ongoing remedy selection activities.

Installation of additional wells to horizontally characterize groundwater downgradient of AP-2 and 3/4 wells with SSLs of cobalt is infeasible due to the proximity of the Chattahoochee River. Georgia Power therefore collected surface water samples from the Chattahoochee River on October 27, 2022 and on February 7, 2023. The surface water samples were analyzed for Appendix III parameters, select Appendix IV parameters (arsenic, cobalt, lithium, and molybdenum) and major ions (magnesium, potassium, sodium, total and bicarbonate alkalinity). Two of the locations within the Chattahoochee River are used for delineation of cobalt (Dewatering Upstream (DW\_US) and CR-0.1). The February 7, 2023 surface water samples were also analyzed for combined radium (Radium 226 + 228). Surface water sampling locations are shown on Figure 3. Surface water samples are collected in accordance with Region 4 U.S. Environmental Protection Agency Laboratory Services and Applied Science Division, Operating Procedure: *Surface Water Sampling*, (LSASDPROC-201-R5), December 23, 2021. (US EPA, 2021). The results of surface water sampling are discussed in Section 5.0 and the laboratory reports are provided in Appendix B. Georgia Power will continue collecting the surface water samples necessary to evaluate nature and extent semi-annually.

As part of ongoing delineation efforts, samples from piezometers B-122D and B-123D were collected in September 2022 and in February 2023. Results of these analyses are provided in Appendix B. New assessment well B-125D was sampled on April 10, 2023 and the data is provided in Appendix B.

### **3.0 SAMPLE METHODOLOGY AND ANALYSIS**

The following sections describe methods used to conduct the September 2022 and the January-February 2023 semi-annual AP-2 and 3/4 groundwater monitoring events. Groundwater analytical data and chain of custody records are presented in Appendix B.

#### **3.1 Groundwater Elevation Measurement**

Groundwater elevations were measured during the September 2022 and the January-February 2023 monitoring events prior to sampling. Groundwater elevation data from September 6, 2022, and from January 31, 2023, are summarized in Table 3. Calculated water level data were used to develop Figures 4A, 4B, 5A and 5B. Site potentiometric maps indicate that groundwater generally flows southeast across the Site from the topographic high northwest of AP-3/4 towards AP-2 and the Chattahoochee River, which is consistent with historical observations. Localized flow direction fluctuations due to ongoing dewatering efforts at AP-4 are shown on Figures 4B and 5B, which is an inset of the northeast portion of AP-3/4. Groundwater flow in this area is towards the center of AP-3/4. Dewatering at AP-4 is creating an inward gradient, restoring the pre-impoundment southward groundwater flow pattern in the northeast portion AP-3/4 that is expected to continue in the future, corresponding to the higher topographic elevations in that area following closure. AP-2 was over-excavated into subgrade soils and filled with on-site backfill from the AP-4 dike, creating a topographic low. Construction in the AP-3/4 area is substantially complete pending construction certification and minor ongoing ash removal.

#### **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 September 2022 and in January 2023 from two piezometer and/or well pairings; DGWA-53/DGWC-13, and B-26/DGWC-48, located along the inferred groundwater flow paths (i.e., 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  $7.70 \times 10^{-4}$  centimeters/second (cm/s), (WSP 2023b). 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, US EPA 1989).

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 horizontal flow velocities were calculated for AP-2 and 3/4 using September 2022 and January 2023 groundwater elevation data as shown on Table 4A and 4B, respectively.

Calculated (horizontal) flow velocities range from approximately 102 feet per year (ft/yr) to 114 ft/yr during the September 2022 and January 2023 events (Tables 4A and 4B, respectively). 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). Small, localized flow changes and temporary flow rate increases are observed in the vicinity of each of the dewatering wells 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. Dedicated and 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, 2020a). 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 2020 or Hach turbidimeters. Groundwater samples were collected when the following stabilization criteria were met for a minimum of three consecutive readings:

- pH within  $\pm 0.1$  standard units (S.U.)
- specific conductance within  $\pm 5\%$
- DO within  $\pm 10\%$  or  $\pm 0.2$  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
- turbidity less than 5 nephelometric turbidity units (NTU)

Upon achieving 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. Sample 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 generated by the Aqua TROLL® 400. These forms include a description of the sampling equipment, sampling method, test notes, field observations, and purge logs (purge rate, stabilization parameters, and depth to water measurements) at each monitoring location. Deviations from the sample plan and stabilization criteria are noted on the field information forms. Field data sheets and daily field instrument calibration forms are included in Appendix A.

### 3.4 Laboratory Analysis

September 2022 and January-February 2023 groundwater samples from wells in the detection and assessment monitoring network as well as supplemental sampling were analyzed for Appendix III and Appendix IV monitoring parameters per 40 CFR § 257.93 and § 257.95(d)(2). Tables 5A through 5D present a tabulated summary of the September 2022 and January-February 2023 detection, assessment, and supplemental sample results. Results for the surface water samples collected in October 2022 and February 2023 are presented in Tables 6A and 6B. Analytical methods used for monitoring parameters are listed in the analytical data reports in Appendix B.

Laboratory analyses 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 the parameters analyzed for this project. Analytical data reports including chain-of-custody records for the monitoring events and NELAP certifications are presented in Appendix B.

### 3.5 Quality Assurance and Quality Control

Quality assurance/quality control (QA/QC) samples were collected at a rate of one per every 10 samples during the September 2022 and January-February 2023 sampling events. QA/QC samples included equipment blanks (where non-dedicated sampling equipment was used), field blanks, and duplicate samples. QA/QC sample data were evaluated during data validation as described below, and are included in Appendix B.

Groundwater quality data in this report were independently validated in accordance with *Data Validation Standard Operating Procedures* (US EPA, 2016), *National Functional Guidelines for Inorganic Superfund Method Data Review* (US EPA 2020b), *US Department of Energy, Evaluation of Radiochemical Data Usability* (Paar, 1997) 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 D.

### 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, Regional Screening Levels (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.

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 D. 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 2022 and January-February 2023 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 D.

### 4.2.1 September 2022 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 D.

### 4.2.2 September 2022 Appendix IV Statistical Results

Analytical data from the September 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, B-115D
Cobalt	DGWC-8, DGWC-9, DGWC-10, DGWC-19, DGWC-20, DGWC-47, DGWC-48, B-56, B-63, B-93, B-104D, B-115D
Lithium	DGWC-47, DGWC-48, B-115D, B-120D
Combined Radium	B-104D, B-109D

### 4.2.3 January-February 2023 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 January-February 2023 assessment monitoring event. A detailed list of the noted exceedances is presented in Appendix D.

### 4.2.4 January-February 2023 Appendix IV Statistical Results

Analytical data from the January-February 2023 monitoring event at AP-2 and 3/4 have been statistically analyzed in accordance with the Site's certified statistical analysis method for wells in the modified detection and

assessment monitoring well network. 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-92, B-93, B-104D
Lithium	DGWC-47, DGWC-48, B-120D
Combined Radium <sup>[1]</sup>	B-104D, B-109D

Notes:

[1] On June 15, 2023, EPD has approved the Supplemental ASD (Alternate Source Demonstration) for Combined Radium submitted on May 24, 2023, for B-104D, B-109D.

## 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 D.

To characterize the nature and extent of arsenic, beryllium, cobalt, lithium, radium, and historical selenium SSLs, multiple wells have been installed and sampled at the Site (Golder, 2020a); refer to the table below for constituent delineation status. An SSL of selenium was previously noted for AP-2 and 3/4, but statistical analyses currently indicate that there is not an SSL for selenium at DGWC-9. Current concentrations of selenium at DGWC-9 are below the GWPS. 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 *Draft Remedy Selection Report (WSP 2023c)* planned for submittal to GA EPD on August 31, 2023.



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-98, Flow is toward AP-4 <sup>[2]</sup>
DGWC-8	Cobalt	B-106D	B-88, Flow is toward AP-4 <sup>[2]</sup>
DGWC-9	Arsenic	B-101D	DGWC-10, Flow is toward AP-4 <sup>[2]</sup>
	Beryllium	B-101D	DGWC-11, Flow is toward AP-4 <sup>[2]</sup>
	Cobalt	B-101D	DGWC-11, Flow is toward AP-4 <sup>[2]</sup>
	Selenium <sup>[3]</sup>	B-101D	DGWC-10, Flow is toward AP-4 <sup>[2]</sup>
DGWC-10	Beryllium	B-102D	DGWC-11, Flow is toward AP-4 <sup>[2]</sup>
	Cobalt	B-102D	DGWC-11, Flow is toward AP-4 <sup>[2]</sup>
DGWC-19	Cobalt	B-107D	B-77
DGWC-20	Cobalt	B-108D	B-83
DGWC-47	Beryllium	B-122D	B-77
	Cobalt	B-122D <sup>[1]</sup>	B-77
	Lithium	B-122D <sup>[1]</sup>	B-77
DGWC-48	Beryllium	B-104D / B-122D <sup>[1]</sup>	B-83
	Cobalt	B-122D <sup>[1]</sup>	B-83
	Lithium	B-104D / B-122D <sup>[1]</sup>	B-83
B-56	Cobalt	B-101D	B-66, Flow is toward AP-4 <sup>[2]</sup>
B-63	Cobalt	B-122D <sup>[1]</sup>	DW_US
B-92	Beryllium	B-111D	B-97, Flow is toward AP-4 <sup>[2]</sup>
	Cobalt	B-111D	B-97, Flow is toward AP-4 <sup>[2]</sup>
B-93	Beryllium	B-111D	B-98, Flow is toward AP-4 <sup>[2]</sup>
	Cobalt	B-111D	B-98, Flow is toward AP-4 <sup>[2]</sup>
B-104D	Cobalt	B-122D <sup>[1]</sup>	B-122D <sup>[1]</sup>
	Combined Radium <sup>[4]</sup>	NA <sup>[4]</sup>	NA <sup>[4]</sup>
B-109D	Combined Radium <sup>[4]</sup>	NA <sup>[4]</sup>	NA <sup>[4]</sup>
B-120D	Lithium	B-125D <sup>[1]</sup>	DGWC-4, Flow is toward AP-4 <sup>[2]</sup>

## Notes:

- [1] Delineation status is pending additional data collection at location at B-122D and B-125D. A minimum of four data points is needed to perform the required statistical analyses.
- [2] Where groundwater flow is inward, toward AP-4, we have indicated delineation is complete.
- [3] Selenium is no longer an SSL at DGWC-9 and concentrations are below the GWPS for the past 3 events. Current sample results are below the GWPS. GPC will continue to evaluate the occurrence of selenium at DGWC-9 until the upper confidence interval is below the GWPS.

[4] An Alternate Source Demonstration (ASD) and Supplemental ASD for Combined Radium has been documented for Plant McDonough (Golder, 2022b, WSP 2023a) and approved by GA EPD on June 15, 2023. Georgia Power will continue to monitor the occurrence of combined radium for these monitoring wells and confirm the viability of the ASD.

Monitoring well B-120D was installed as a vertical delineation well at location B-3. An SSL of lithium was identified at B-120D. Horizontal delineation for the SSL at B-120D is complete with well DGWC-4. Vertical delineation is determined by the installation and sampling of new well B-125D and will be evaluated statistically after collecting a minimum of four data points. Note that groundwater flow is inward, toward AP-4. The well installation report is provided in Appendix E.

Horizontal and vertical delineation of radium at B-104D and B-109D are not applicable at this time. An ASD and Supplemental ASD (Golder, 2022b and WSP 202a) have been submitted to GA EPD providing lines of evidence that radium is naturally occurring in the bedrock beneath the Site. The Supplemental ASD, submitted to GA EPD in May 2023 and approved June 15, 2023 is provided in Appendix F.

Based on data collected to date, there are no impacts to surface water by constituents with SSLs at AP-2 and 3/4. The horizontal and vertical delineation of target SSL constituents is complete. Assessment monitoring well B-122D will serve as the vertical delineation well for impacts from DGWC-47, DGWC-48, and B-63. As such, monitoring wells B-115D and B-123D will no longer be monitored as assessment monitoring wells and will be used as piezometers. Both B-115D and B-123D produce very little water from the limited fracture zones within the bedrock and representative sample collection is not feasible at these locations. Horizontal and vertical delineation based on review of analytical results, statistical analyses and the isoconcentration contours is presented in more detail in Draft Remedy Selection Report (WSP 2023c) planned for submittal to GA EPD on August 31, 2023.

## 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. For the past three events, concentrations of selenium at DGWC-9 have been below the GWPS and as such is no longer being evaluated as part of the ACM process. Since initiation of the ACM, radium was also identified as an SSL. In response, an ASD has been approved by GA EPD to address the presence of radium in Site groundwater.

In accordance with 40 CFR § 257.97(a), a remedy selection progress report has been prepared and submitted concurrent with each semi-annual groundwater monitoring report to document results associated with additional data collection, and present progress toward selection and design of a groundwater remedy. A *Draft Remedy Selection Report* is planned for submittal to GA EPD on August 31, 2023 in lieu of the *Semi-Annual Remedy Selection and Design Progress Report* (semi-annual progress report) previously included in the appendix of the routine annual groundwater monitoring and corrective action reports. A summary of the forthcoming *Draft Remedy Selection Report* includes the following:

- The current groundwater conceptual site model applicable to evaluating groundwater corrective measures proposed in the ACM Report (Golder 2020b);
- An assessment of corrective action investigations completed to date;
- An evaluation of each corrective measure retained for further consideration following the completed investigations;
- A comparison of corrective measure options using the comparative criteria such as long- and short-term effectiveness and protectiveness, source control effectiveness and ease of implementation; and
- A summary of the proposed corrective measure, or measures for AP-2, 3/4.

## 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 *2023 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 September 2022 and January 2023 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 during assessment monitoring until the ACM is complete and a long-term corrective action groundwater monitoring is established. 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 and vertical delineation of constituents exhibiting SSLs is complete.

Based on the findings presented herein, Plant McDonough will continue with assessment groundwater monitoring and reporting. A *Draft Remedy Selection Report*, which summarizes the evaluation and proposed selection of corrective measures will be submitted to EPD on August 31, 2023. The next sampling event is tentatively scheduled for September 2023.

## 9.0 REFERENCES

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- WSP, 2023a. *Supplemental ASD for Combined Radium*, Plant McDonough-Atkinson Ash Pond 1 and Ash Pond 2 and 3/4, May 22, 2023.

WSP, 2023b, Hydrogeologic Assessment Report, Georgia Power Company – Plant McDonough-Atkinson CCR Surface Impoundment (CCR Unit AP-2 and 3/4) May 2023.

WSP, 2023c, Draft Remedy Selection Report, Georgia Power Company – Plant McDonough-Atkinson Ash Pond AP-2 and 3/4) August 31, 2023.

## TABLES

**TABLE 1**  
**SUMMARY OF MONITORING WELL, ASSESSMENT WELL AND PIEZOMETER CONSTRUCTION DATA**  
 Georgia Power Company - Plant McDonough Ash Pond 2 and 3/4  
 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
<b>ASH POND 1 (AP-1) DETECTION MONITORING WELL NETWORK</b>											
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
<b>ASH POND 1 (AP-1) ASSESSMENT MONITORING WELL NETWORK</b>											
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



**TABLE 1**  
**SUMMARY OF MONITORING WELL, ASSESSMENT WELL AND PIEZOMETER CONSTRUCTION DATA**  
 Georgia Power Company - Plant McDonough Ash Pond 2 and 3/4  
 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
<b>ASH POND 2 and ASH PONDS 3/4 (AP-2, 3/4) DETECTION MONITORING WELL NETWORK</b>											
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 Ash Pond 2 and 3/4  
 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
<b>ASH POND 2 and ASH PONDS 3/4 (AP-2, 3/4) ASSESSMENT MONITORING WELL NETWORK</b>											
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-122D	Downgradient	Bedrock	1390992.8	2202975.4	777.03	777.3	85.0	707.5	697.5	10	3/24/2022
B-125D	Downgradient	Bedrock	1394111.6	2202580.7	821.70	819.2	145.4	684.1	674.1	10	3/31/2023



**TABLE 1**  
**SUMMARY OF MONITORING WELL, ASSESSMENT WELL AND PIEZOMETER CONSTRUCTION DATA**  
 Georgia Power Company - Plant McDonough Ash Pond 2 and 3/4  
 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
<b>PIEZOMETERS</b>											
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
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



**TABLE 1**  
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 Georgia Power Company - Plant McDonough Ash Pond 2 and 3/4  
 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
<b>PIEZOMETERS</b>											
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	758.1	21.9	746.6	736.6	10	4/19/2017
B-73	Downgradient	Overburden	1391352.4	2200697.5	759.46	758.9	15.8	753.5	743.5	10	4/19/2017
B-74	Downgradient	Overburden	1391279.8	2200665.3	759.44	759.0	16.5	748.2	743.2	5	4/25/2017
B-76	Downgradient	Overburden	1390716.9	2202756.0	760.31	760.5	38.5	732.0	722.0	10	9/18/2019
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
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-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-94	Downgradient	Overburden	1394402.0	2203513.7	801.74	799.2	45.2	764.6	754.6	10	1/23/2020
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



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 Georgia Power Company - Plant McDonough Ash Pond 2 and 3/4  
 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
<b>PIEZOMETERS</b>											
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-113D	Downgradient	Upper Bedrock	1391264.6	2200719.2	758.22	758.8	85.0	684.4	674.4	10	3/30/2021
B-115D	Downgradient	Upper Bedrock	1391265.3	2202580.7	789.17	786.4	80.0	717.2	707.2	10	3/20/2021
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
B-120D	Downgradient	Upper Bedrock	1394047.2	2202436.4	836.42	834.0	70.0	775.0	765.0	10	3/6/2021
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 Event			Status of Monitoring Well
		September 2022	January-February 2023	April 2023	
Purpose of Sampling Event		Detection/Assessment	Detection/Assessment	Detection/Assessment	
<b>ASH POND 2 and ASH PONDS 3/4 (AP-2 &amp; 3/4) MONITORING WELL NETWORK</b>					
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
<b>ASH POND 2 and ASH PONDS 3/4 (AP-2 &amp; 3/4) ASSESSMENT MONITORING WELL NETWORK</b>					
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 Event			Status of Monitoring Well
		September 2022	January-February 2023	April 2023	
Purpose of Sampling Event		Detection/Assessment	Detection/Assessment	Detection/Assessment	
<b>ASH POND 2 and ASH PONDS 3/4 (AP-2 &amp; 3/4) ASSESSMENT MONITORING WELL NETWORK</b>					
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-120D	Downgradient	X	X	--	Assessment
B-122D	Downgradient	X	X	--	Assessment
B-125D*	Downgradient	--	--	X	Assessment
<b>ASH POND 2 and ASH PONDS 3/4 (AP-2 &amp; 3/4) SUPPLEMENTAL SAMPLING</b>					
B-90	Upgradient	X	X	--	Supplemental
B-91	Upgradient	X	X	--	Supplemental
B-95	Upgradient	X	X	--	Supplemental
B-96	Upgradient	X	X	--	Supplemental
B-99	Upgradient	X	X	--	Supplemental
B-115D	Downgradient	X	X	--	Supplemental
B-116D	Upgradient	X	--	--	Supplemental
B-117D	Upgradient	X	--	--	Supplemental
B-118	Upgradient	X	--	--	Supplemental
B-119D	Upgradient	X	--	--	Supplemental
B-123D	Downgradient	X	X	--	Supplemental



**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 Event			Status of Monitoring Well
		September 2022	January-February 2023	April 2023	
Purpose of Sampling Event		Detection/Assessment	Detection/Assessment	Detection/Assessment	
<b>ASH POND 2 and ASH PONDS 3/4 (AP-2 &amp; 3/4) RISK ASSESSMENT SAMPLING</b>					
B-54	Downgradient	X	--	--	Risk Assessment
B-63	Downgradient	X	--	--	Risk Assessment
B-64	Downgradient	X	--	--	Risk Assessment
B-66	Downgradient	X	--	--	Risk Assessment
B-76	Downgradient	X	--	--	Risk Assessment
B-77	Downgradient	X	--	--	Risk Assessment
B-78	Downgradient	X	--	--	Risk Assessment
B-79	Downgradient	X	--	--	Risk Assessment
B-82	Downgradient	X	--	--	Risk Assessment
B-88	Downgradient	X	--	--	Risk Assessment
B-62	Downgradient	X	--	--	Risk Assessment
B-68	Downgradient	X	--	--	Risk Assessment
B-73	Downgradient	X	--	--	Risk Assessment
B-74	Downgradient	X	--	--	Risk Assessment

Notes:

"--" Not Sampled

X - indicates well sampled during event

\* B-125D was installed on March 31, 2023 and sampled on April 10, 2023.



**TABLE 3**  
**SUMMARY OF GROUNDWATER ELEVATIONS**  
 Georgia Power Company - Plant McDonough Ash Pond 2 and 3/4  
 Atlanta, Georgia

Well ID	Top of Casing Elevation (feet NAVD 88)	Groundwater Elevation (feet NAVD 88)	
		9/6/2022	1/31/2023
<b>ASH POND 1 (AP-1) DETECTION MONITORING WELL NETWORK</b>			
DGWA-53	844.26	830.21	833.17
DGWA-70A	808.52	765.56	766.50
DGWA-71	863.84	834.48	834.26
DGWC-37	766.21	752.23	753.16
DGWC-38	757.43	750.93	751.50
DGWC-39	759.89	752.24	753.48
DGWC-40	779.06	760.17	762.10
DGWC-67	766.70	756.15	757.23
DGWC-68A	765.33	754.83	756.14
DGWC-69	763.75	757.45	758.53
DGWC-121	764.16	754.49	755.88
<b>ASH POND 1 (AP-1) ASSESSMENT MONITORING WELL NETWORK</b>			
B-62	760.08	743.73	745.57
B-100	777.95	743.66	745.05
B-105D	779.01	760.68	762.42
B-112D	765.58	757.70	758.89
<b>ASH POND 2 and ASH PONDS 3/4 (AP-2, 3/4) DETECTION MONITORING WELL NETWORK</b>			
DGWA-53	844.26	830.21	833.17
DGWA-70A	808.52	765.56	766.50
DGWA-71	863.84	834.48	834.26
DGWC-2	850.88	820.72	821.79
DGWC-4	814.85	789.10	790.66
DGWC-5	791.75	780.26	782.20
DGWC-8	826.38	786.86	788.20
DGWC-9	824.35	795.82	798.86
DGWC-10	823.55	791.80	796.78
DGWC-11	800.57	784.41	791.01
DGWC-12	773.86	763.28	766.45
DGWC-13	794.10	760.03	759.88
DGWC-14	792.40	770.85	772.78
DGWC-15	824.50	783.46	783.36
DGWC-17	837.05	800.32	800.02
DGWC-19	825.46	799.23	798.83
DGWC-20	822.14	797.91	798.78
DGWC-21	816.28	797.85	797.98
DGWC-22	816.59	794.02	795.31
DGWC-23	818.37	795.43	800.18
DGWC-42	804.68	774.48	774.88
DGWC-47	797.45	780.54	781.70
DGWC-48	788.33	773.65	774.25



**TABLE 3**  
**SUMMARY OF GROUNDWATER ELEVATIONS**  
 Georgia Power Company - Plant McDonough Ash Pond 2 and 3/4  
 Atlanta, Georgia

Well ID	Top of Casing Elevation (feet NAVD 88)	Groundwater Elevation (feet NAVD 88)	Groundwater Elevation (feet NAVD 88)
		9/6/2022	1/31/2023
<b>ASH POND 2 and ASH PONDS 3/4 (AP-2, 3/4) ASSESSMENT MONITORING WELL NETWORK</b>			
B-56	823.59	793.37	796.24
B-62	760.08	743.73	745.57
B-63	777.10	746.63	748.67
B-66	815.90	794.45	799.50
B-77	776.86	745.99	748.44
B-82	810.07	792.13	799.75
B-83	776.98	745.44	747.04
B-88	820.07	782.33	782.56
B-92	785.08	779.00	780.11
B-93	789.07	779.87	782.19
B-97	786.29	779.27	781.48
B-98	789.67	779.46	783.16
B-100	777.95	743.66	745.05
B-101D	824.29	792.29	794.78
B-102D	823.42	789.27	791.92
B-104D	787.90	780.82	781.88
B-106D	826.21	785.96	786.82
B-107D	823.38	799.55	799.95
B-108D	821.13	798.40	798.70
B-109D	850.73	811.56	811.83
B-111D	791.87	779.43	781.72
B-122D	777.03	746.21	747.93
<b>PIEZOMETERS</b>			
B-3	837.78	800.94	801.05
B-6	789.47	782.06	783.45
B-7	809.16	782.92	783.38
B-16	826.47	790.16	789.93
B-18	826.56	802.04	803.29
B-24	822.11	799.68	802.02
B-25	836.54	816.07	823.35
B-26	853.60	824.89	826.78
B-28	816.08	784.54	786.24
B-29	816.43	786.02	789.01
B-31	797.47	763.12	764.06
B-41	795.20	769.93	770.80
B-50	809.67	786.10	787.20
B-51	765.92	752.64	753.60
B-52	822.89	793.02	793.47
B-54	785.46	779.07	779.77
B-55	825.12	797.89	801.63
B-57	789.04	769.63	770.22

**TABLE 3**  
**SUMMARY OF GROUNDWATER ELEVATIONS**  
 Georgia Power Company - Plant McDonough Ash Pond 2 and 3/4  
 Atlanta, Georgia

Well ID	Top of Casing Elevation (feet NAVD 88)	Groundwater Elevation (feet NAVD 88)	
		9/6/2022	1/31/2023
<b>PIEZOMETERS</b>			
B-58	788.17	768.27	768.81
B-59	788.00	779.44	780.51
B-60	782.13	750.08	751.28
B-61	782.09	762.50	765.41
B-64	785.83	779.03	779.97
B-65	821.95	804.03	809.90
B-68	758.68	754.58	755.68
B-72	758.46	754.86	755.63
B-73	759.21	754.48	756.06
B-74	759.06	754.61	755.71
B-76	760.53	744.63	746.19
B-78	790.75	779.19	780.56
B-79	788.66	781.01	781.92
B-80	804.47	783.21	784.07
B-81	820.56	782.91	783.05
B-85	782.54	779.10	779.78
B-86	784.29	781.56	782.57
B-87	803.37	783.35	784.43
B-89	822.36	797.69	801.06
B-90	784.00	781.48	782.30
B-91	782.98	778.93	779.40
B-94	801.74	783.27	784.40
B-95	784.00	781.30	782.15
B-96	784.92	778.77	779.61
B-99	782.39	778.27	779.37
B-103D	795.96	782.74	783.57
B-110D	764.61	755.43	756.49
B-113D	758.22	756.18	757.20
B-115D	789.17	767.79	768.34
B-116D	807.82	763.52	765.43
B-117D	863.82	833.87	834.35
B-118	807.70	755.79	756.73
B-119D	807.15	759.05	760.26
B-120D	836.42	801.03	801.14
B-123D	781.80	769.00	768.02

**Notes:**

1. Elevation data recorded in feet referenced to the North American Vertical Datum 1988 (NAVD 88)
2. Survey data for monitoring wells and piezometers provided by Metro Engineering.

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

Flow Paths	Groundwater Elevation (feet)	$\Delta h$ (feet) <sup>1</sup>	$\Delta l$ (feet) <sup>2</sup>	Hydraulic Gradient ( $\Delta h/\Delta l$ ) <sup>3</sup>	Average Hydraulic Conductivity, K (centimeter per second) <sup>5</sup>	Assumed Effective Porosity ( $n_e$ ) <sup>6</sup>	Average Linear Groundwater Velocity	
							(feet per day) <sup>4</sup>	(feet per year) <sup>4</sup>
<b>ASH POND 2 AND ASH PONDS 3/4 (AP-2, 3/4)</b>								
DGWA-53/DGWC-13	830.21	70.18	2550	0.028	0.00077	0.2	0.30	110
	760.03							
B-26/DGWC-48	824.89	51.24	2000	0.026	0.00077	0.2	0.28	102
	773.65							

**Notes:**

1.  $\Delta h$  = Change in groundwater elevation
2.  $\Delta l$  = Distance along flow path
3.  $I = \Delta h / \Delta l$
4. Velocity =  $(I * K)/n_e$
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 2023**  
 Georgia Power Company - Plant McDonough Ash Pond 2 and 3/4  
 Atlanta, Georgia

Flow Paths	Groundwater Elevation (feet)	$\Delta h$ (feet) <sup>1</sup>	$\Delta l$ (feet) <sup>2</sup>	Hydraulic Gradient ( $\Delta h/\Delta l$ ) <sup>3</sup>	Average Hydraulic Conductivity, K (centimeter per second) <sup>5</sup>	Assumed Effective Porosity ( $n_e$ ) <sup>6</sup>	Average Linear Groundwater Velocity	
							(feet per day) <sup>4</sup>	(feet per year) <sup>4</sup>
<b>ASH POND 2 AND ASH PONDS 3/4 (AP-2, 3/4)</b>								
DGWA-53/DGWC-13	833.17	73.29	2550	0.029	0.00077	0.2	0.31	114
	759.88							
B-26/DGWC-48	826.78	52.53	2000	0.026	0.00077	0.2	0.29	105
	774.25							

**Notes:**

1.  $\Delta h$  = Change in groundwater elevation
2.  $\Delta l$  = Distance along flow path
3.  $I = \Delta h / \Delta l$
4. Velocity =  $(I * K)/n_e$
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**  
**September 2022**  
Georgia Power Company - Plant McDonough Ash Pond 2 and 3/4  
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
		9/8/2022	9/7/2022	9/7/2022	9/20/2022	9/19/2022	9/14/2022	9/15/2022	9/19/2022	9/15/2022	9/15/2022	9/15/2022	9/15/2022	9/13/2022
<b>Appendix III</b>														
BORON, TOTAL	mg/L	0.054	< 0.0086	< 0.0086	0.42	4.8	5.0	0.83	0.80	0.42	1.7	3.3	0.69	0.091
CALCIUM, TOTAL	mg/L	17.2	5.9	6.4	37.8	376	117	29.3	45.1	64.4	66.6	41.5	36.7	11.2
CHLORIDE, TOTAL	mg/L	1.6	2.1	8.2	2.0	11.2	11.2	8.3	13.2	8.2	12.1	8.2	13.7	3.5
FLUORIDE, TOTAL	mg/L	0.11	0.061 J	0.056 J	0.076 J	0.061 J	0.27	0.077 J	0.80	0.84	0.064 J	0.078 J	0.095 J	0.059 J
pH	S.U.	6.32	5.60	5.65	5.98	5.76	4.75	5.20	3.98	4.87	5.52	5.75	5.56	5.71
SULFATE, TOTAL	mg/L	12.0	< 0.50	7.0	98.4	925	505	134	274	229	287	191	133	41.2
TOTAL DISSOLVED SOLIDS	mg/L	129	34.0	82.0	230	1670	850	234	456	280	414	377	216	80.0
<b>Appendix IV</b>														
ANTIMONY, TOTAL	mg/L	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078
ARSENIC, TOTAL	mg/L	0.0029 J	0.0024 J	< 0.0022	< 0.0022	< 0.0022	0.0038 J	< 0.0022	0.016	0.0024 J	< 0.0022	< 0.0022	< 0.0022	< 0.0022
BARIUM, TOTAL	mg/L	0.077	0.039	0.025	0.020	0.032	0.018	0.021	0.017	0.018	0.047	0.035	0.027	0.063
BERYLLIUM, TOTAL	mg/L	< 0.000054	0.000084 J	0.000075 J	< 0.000054	0.00034 J	0.010	0.00088	0.0047	0.0063	0.00018 J	0.00019 J	0.000080 J	< 0.000054
CADMIUM, TOTAL	mg/L	< 0.00011	< 0.00011	< 0.00011	< 0.00011	0.00091	0.00087	0.0011	0.00076	0.00047 J	< 0.00011	0.00017 J	< 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	0.012	< 0.00039	< 0.00039	0.0028 J	0.0018 J	0.027	0.0046 J	0.25	0.055	0.0010 J	0.025	< 0.00039	< 0.00039
FLUORIDE, TOTAL	mg/L	0.11	0.061 J	0.056 J	0.076 J	0.061 J	0.27	0.077 J	0.80	0.84	0.064 J	0.078 J	0.095 J	0.059 J
LEAD, TOTAL	mg/L	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.0044	< 0.0044	< 0.00089	< 0.00089	< 0.00089	< 0.00089
LITHIUM, TOTAL	mg/L	0.0083 J	< 0.00073	0.0012 J	0.021 J	0.0037 J	0.0081 J	0.0039 J	0.023 J	0.0053 J	0.0024 J	0.00088 J	0.0040 J	0.0043 J
MERCURY, TOTAL	mg/L	< 0.00013	< 0.00013	0.00013 J	< 0.00013	< 0.00013	0.00022	< 0.00013	0.00020	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
MOLYBDENUM, TOTAL	mg/L	0.027	< 0.00074	< 0.00074	0.0021 J	0.0037 J	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	0.0094 J	< 0.00074
RADIUM (226 + 228)	pCi/L	1.69	0.504 U	0.588 U	0.450 U	1.55	0.665 U	0.896	1.38	0.953	1.12	0.520 U	1.01	0.538 U
SELENIUM, TOTAL	mg/L	< 0.0014	< 0.0014	< 0.0014	0.0018 J	< 0.0014	0.019	< 0.0014	0.048	0.020	< 0.0014	< 0.0014	0.0040 J	< 0.0014
THALLIUM, TOTAL	mg/L	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00090	< 0.00090	< 0.00018	< 0.00018	< 0.00018	< 0.00018
<b>Additional Parameters</b>														
ALKALINITY , BICARBONATE	mg/L	78.6	27.6	16.0	47.5	127	< 5.0	9.2	< 5.0	< 5.0	12.5	33.6	22.1	15.2
ALKALINITY , CARBONATE	mg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
ALKALINITY , TOTAL	mg/L	78.6	27.6	16.0	47.5	127	< 5.0	9.2	< 5.0	< 5.0	12.5	33.6	22.1	15.2
MAGNESIUM	mg/L	5.8	2.30	0.87	7.6	41.3	24.5	15.0	8.3	6.2	25.8	19.5	7.9	4.7
POTASSIUM	mg/L	3.6	1.60	0.76	5.1	10.5	3.9	3.7	5.7	5.7	4.5	5.5	4.9	3.2
SODIUM	mg/L	7.3	3.4	8.1	9.5	59.4	19.8	12.3	34.3	10.3	21.0	12.7	20.7	7.0
IRON, TOTAL	mg/L	5.4	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	9.9	< 0.025	0.040
FERROUS (II)	mg/L	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	0.0	0.0
FERRIC (III)	mg/L	2.4	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	2.9	< 0.025	0.040

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**  
**September 2022**  
Georgia Power Company - Plant McDonough Ash Pond 2 and 3/4  
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
		9/13/2022	9/14/2022	9/14/2022	9/15/2022	9/15/2022	9/16/2022	9/20/2022	9/13/2022	9/13/2022	9/13/2022	9/16/2022	9/9/2022	9/14/2022
<b>Appendix III</b>														
BORON, TOTAL	mg/L	1.5	0.87	2.4	4.2	6.7	4.2	4.6	1.1	0.18	0.61	1.6	0.064	0.38
CALCIUM, TOTAL	mg/L	34.4	16.4	105	70.1	82.2	66.2	90.0	34.2	24.8	65.3	18.4	31.4	26.3
CHLORIDE, TOTAL	mg/L	21.9	19.0	18.7	26.2	17.6	18.0	11.6	18.7	3.3	8.9	6.9	5.3	6.5
FLUORIDE, TOTAL	mg/L	0.065 J	0.10	0.18	0.69	0.087 J	0.068 J	0.11	< 0.050	0.47	0.43	0.22	0.13	0.14
pH	S.U.	5.82	5.08	4.81	4.58	5.69	5.62	6.00	5.04	4.15	4.25	4.56	6.22	5.31
SULFATE, TOTAL	mg/L	145	268	388	462	268	265	242	326	150	309	234	45.8	93.3
TOTAL DISSOLVED SOLIDS	mg/L	289	434	572	618	440	462	511	540	277	527	353	160	206
<b>Appendix IV</b>														
ANTIMONY, TOTAL	mg/L	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078
ARSENIC, TOTAL	mg/L	< 0.0022	< 0.0022	< 0.0022	0.016	< 0.0022	< 0.0022	< 0.0022	< 0.0022	< 0.0022	< 0.0022	< 0.0022	< 0.0022	< 0.0022
BARIUM, TOTAL	mg/L	0.042	0.031	0.027	0.017	0.024	0.029	0.019	0.016	0.022	0.014	0.028	0.018	0.032
BERYLLIUM, TOTAL	mg/L	< 0.000054	0.00058	0.0018	0.0056	0.00018 J	0.00023 J	0.00037 J	0.0028	0.0094	0.0071	0.0013	0.00013 J	0.00053
CADMIUM, TOTAL	mg/L	< 0.00011	0.00024 J	0.00032 J	0.0021	0.00029 J	0.00065	0.00017 J	0.00069	0.0011	0.0026	0.00030 J	< 0.00011	0.00018 J
CHROMIUM, TOTAL	mg/L	< 0.0011	0.0023 J	0.0024 J	0.0014 J	< 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	0.016	0.052	0.75	0.0081	0.0098	0.00053 J	0.0069	0.21	0.31	0.051	< 0.00039	0.050
FLUORIDE, TOTAL	mg/L	0.065 J	0.10	0.18	0.69	0.087 J	0.068 J	0.11	< 0.050	0.47	0.43	0.22	0.13	0.14
LEAD, TOTAL	mg/L	< 0.00089	< 0.00089	< 0.00089	< 0.0044	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	0.00093 J	< 0.00089	< 0.00089	< 0.00089
LITHIUM, TOTAL	mg/L	0.0057 J	< 0.00073	0.0032 J	0.0096 J	0.0069 J	0.0033 J	0.0051 J	0.0091 J	0.050	0.099	0.0057 J	0.0085 J	0.0072 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	0.0095 J	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074
RADIUM (226 + 228)	pCi/L	0.761 U	0.489 U	0.674 U	1.38	0.771 U	1.01	1.17 U	0.829 U	1.97	1.42	0.752 U	1.96	1.61
SELENIUM, TOTAL	mg/L	< 0.0014	0.0064	0.0073	0.062	< 0.0014	< 0.0014	< 0.0014	< 0.0014	0.0031 J	0.0019 J	0.010	< 0.0014	< 0.0014
THALLIUM, TOTAL	mg/L	< 0.00018	< 0.00018	0.00056 J	0.0010 J	< 0.00018	< 0.00018	< 0.00018	< 0.00018	0.00021 J	< 0.00018	0.00024 J	< 0.00018	< 0.00018
<b>Additional Parameters</b>														
ALKALINITY , BICARBONATE	mg/L	17.3	< 5.0	< 5.0	< 5.0	31.6	24.7	87.3	6.4	< 5.0	< 5.0	< 5.0	70.3	33.2
ALKALINITY , CARBONATE	mg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
ALKALINITY , TOTAL	mg/L	17.3	< 5.0	< 5.0	< 5.0	31.6	24.7	87.3	6.4	< 5.0	< 5.0	< 5.0	70.3	33.2
MAGNESIUM	mg/L	14.9	52.8	12.1	25.4	17.5	22.8	20.4	25.0	7.3	15.1	34.1	5.1	9.3
POTASSIUM	mg/L	4.4	3.7	4.1	7.7	6.6	6.8	7.7	5.3	5.4	14.0	5.0	2.4	2.7
SODIUM	mg/L	21.5	17.5	38.9	17.3	22.4	30.4	22.9	78.3	7.8	21.7	22.2	10.2	13.0
IRON, TOTAL	mg/L	0.13	< 0.025	0.026 J	0.034 J	< 0.025	< 0.025	< 0.025	0.15	3.6	4.1	0.052	6.5	1.6
FERROUS (II)	mg/L	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.5	2.5	0.0	1.5	1.5
FERRIC (III)	mg/L	0.13	< 0.025	0.026 J	< 0.025	< 0.025	< 0.025	< 0.025	0.15	3.1	1.6	0.052	5.0	0.1

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**  
**September 2022**  
Georgia Power Company - Plant McDonough Ash Pond 2 and 3/4  
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
		9/16/2022	9/13/2022	9/16/2022	9/13/2022	9/16/2022	9/12/2022	9/12/2022	9/13/2022	9/13/2022	9/8/2022	9/16/2022	9/15/2022	9/13/2022
<b>Appendix III</b>														
BORON, TOTAL	mg/L	2.2	0.33	0.61	0.33	2.1	2.9	3.6	3.7	0.62	0.24	1.4	2.3	0.26
CALCIUM, TOTAL	mg/L	63.9	15.7	34.3	36.2	97.6	104	133	201	63.3	46.0	57.0	70.3	153
CHLORIDE, TOTAL	mg/L	8.4	2.4	9.4	2.5	8.7	10.2	15.0	19.5	4.9	10.2	8.7	9.9	8.0
FLUORIDE, TOTAL	mg/L	0.18	0.080 J	0.079 J	0.081 J	0.054 J	0.24	0.40	0.14	0.18	0.072 J	0.099 J	0.11	0.35
pH	S.U.	6.60	6.34	5.02	5.60	5.47	4.56	4.70	5.54	6.18	5.24	5.92	5.43	6.49
SULFATE, TOTAL	mg/L	285	10.0	404	109	433	394	508	677	92.1	399	223	258	505
TOTAL DISSOLVED SOLIDS	mg/L	498	113	468	210	564	696	884	1050	267	606	365	437	832
<b>Appendix IV</b>														
ANTIMONY, TOTAL	mg/L	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	0.00096 J	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078
ARSENIC, TOTAL	mg/L	< 0.0022	< 0.0022	< 0.0022	< 0.0022	< 0.0022	< 0.0022	< 0.0022	< 0.0022	< 0.0022	< 0.0022	< 0.0022	< 0.0022	< 0.0022
BARIUM, TOTAL	mg/L	0.020	0.089	0.020	0.025	0.016	0.017	0.015	0.020	0.092	0.021	0.063	0.019	0.021
BERYLLIUM, TOTAL	mg/L	< 0.000054	0.00013 J	0.0020	0.00044 J	0.0013	0.017	0.017	0.0017	0.000062 J	0.00058	0.000067 J	0.0010	0.0014
CADMIUM, TOTAL	mg/L	< 0.00011	< 0.00011	0.00073	0.00031 J	0.0019	0.0014	0.00084	0.00055	0.00031 J	0.00027 J	< 0.00011	0.00091	< 0.00011
CHROMIUM, TOTAL	mg/L	< 0.0011	< 0.0011	< 0.0011	0.0022 J	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011
COBALT, TOTAL	mg/L	0.012	< 0.00039	0.0017 J	0.012	0.0014 J	0.073	0.057	0.0029 J	0.00063 J	0.028	0.0035 J	0.012	0.14
FLUORIDE, TOTAL	mg/L	0.18	0.080 J	0.079 J	0.081 J	0.054 J	0.24	0.40	0.14	0.18	0.072 J	0.099 J	0.11	0.35
LEAD, TOTAL	mg/L	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.0044	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089
LITHIUM, TOTAL	mg/L	< 0.00073	0.0020 J	0.00078 J	0.0027 J	0.0021 J	0.015 J	0.013 J	0.0052 J	0.0011 J	0.0023 J	0.011 J	0.013 J	0.040
MERCURY, TOTAL	mg/L	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	0.00015 J	0.00016 J	< 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	0.00084 J	< 0.00074	< 0.00074	0.0015 J	< 0.00074
RADIUM (226 + 228)	pCi/L	0.832 U	1.11	0.694 U	0.893 U	1.25	2.34	1.09	1.11	2.03	0.643 U	1.64	0.610 U	9.12
SELENIUM, TOTAL	mg/L	< 0.0014	< 0.0014	< 0.0014	0.024	0.0020 J	0.012	0.013	0.0032 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	0.00020 J	< 0.00090	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018
<b>Additional Parameters</b>														
ALKALINITY , BICARBONATE	mg/L	119	86.2	5.0	39.2	15.8	< 5.0	< 5.0	54.0	102	31.5	35.5	11.6	69.1
ALKALINITY , CARBONATE	mg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
ALKALINITY , TOTAL	mg/L	119	86.2	5.0	39.2	15.8	< 5.0	< 5.0	54.0	102	31.5	35.5	11.6	69.1
MAGNESIUM	mg/L	44.0	4.6	79.6	10.1	35.7	17.4	22.4	34.3	4.7	46.3	20.7	15.0	27.5
POTASSIUM	mg/L	5.5	1.1	5.3	2.6	11.3	5.7	6.5	5.6	8.2	1.2	6.0	6.2	8.2
SODIUM	mg/L	30.5	7.7	17.1	9.6	28.6	18.4	24.5	40.1	8.9	27.0	18.9	17.9	19.6
IRON, TOTAL	mg/L	3.0	29.8	0.064	< 0.025	0.25	0.036 J	< 0.025	< 0.025	0.13	25.0	0.11	0.033 J	10.3
FERROUS (II)	mg/L	2.5	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	0.0	0.0	2.0
FERRIC (III)	mg/L	0.5	22.8	0.064	< 0.025	0.25	0.036 J	< 0.025	< 0.025	0.13	18.0	0.11	0.033 J	8.3

Notes:

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

**September 2022**

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

Analyte	UNITS	ASSESSMENT MONITORING WELLS						
		B-106D	B-107D	B-108D	B-109D	B-111D	B-120D	B-122D
		9/16/2022	9/14/2022	9/15/2022	9/20/2022	9/14/2022	9/19/2022	9/14/2022
<b>Appendix III</b>								
BORON, TOTAL	mg/L	1.0	11.2	7.1	0.61	0.24	1.7	0.25
CALCIUM, TOTAL	mg/L	35.3	82.6	85.1	40.5	90.7	142	51.0
CHLORIDE, TOTAL	mg/L	6.6	12.9	27.6	3.5	10.3	5.8	15.5
FLUORIDE, TOTAL	mg/L	0.080 J	0.053 J	0.061 J	0.15	0.38	0.057 J	0.2
pH	S.U.	5.82	5.87	5.86	6.38	7.09	5.21	6.07
SULFATE, TOTAL	mg/L	137	327	318	108	228	489	121
TOTAL DISSOLVED SOLIDS	mg/L	240	582	540	327	470	867	315
<b>Appendix IV</b>								
ANTIMONY, TOTAL	mg/L	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078
ARSENIC, TOTAL	mg/L	< 0.0022	< 0.0022	< 0.0022	< 0.0022	< 0.0022	< 0.0022	< 0.0022
BARIUM, TOTAL	mg/L	0.021	0.057	0.054	0.055	0.028	0.023	0.046
BERYLLIUM, TOTAL	mg/L	0.00011 J	< 0.000054	< 0.000054	0.000080 J	< 0.000054	0.0011	0.00028 J
CADMIUM, TOTAL	mg/L	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	0.0012	< 0.00011
CHROMIUM, TOTAL	mg/L	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011
COBALT, TOTAL	mg/L	< 0.00039	0.00061 J	0.0010 J	< 0.00039	< 0.00039	0.0027 J	0.0033 J
FLUORIDE, TOTAL	mg/L	0.080 J	0.053 J	0.061 J	0.15	0.38	0.057 J	0.17
LEAD, TOTAL	mg/L	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089
LITHIUM, TOTAL	mg/L	0.0054 J	0.015 J	0.016 J	0.013 J	0.020 J	0.076	0.013 J
MERCURY, TOTAL	mg/L	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
MOLYBDENUM, TOTAL	mg/L	< 0.00074	< 0.00074	< 0.00074	0.0014 J	0.0069 J	< 0.00074	0.0011 J
RADIUM (226 + 228)	pCi/L	0.655 U	0.737 U	1.36	16.5	6.23	2.22	7.94
SELENIUM, TOTAL	mg/L	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	0.0038 J	< 0.0014
THALLIUM, TOTAL	mg/L	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018
<b>Additional Parameters</b>								
ALKALINITY , BICARBONATE	mg/L	29.9	28.0	27.4	96.2	112	27.8	123
ALKALINITY , CARBONATE	mg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
ALKALINITY , TOTAL	mg/L	29.9	28.0	27.4	96.2	112	27.8	123
MAGNESIUM	mg/L	16.7	30.4	34.4	11.7	8.8	31.8	9.9
POTASSIUM	mg/L	3.8	5.9	5.5	7.4	6.2	9.3	4.0
SODIUM	mg/L	14.6	19.2	17.9	22.1	38.8	33.1	31.3
IRON, TOTAL	mg/L	0.031 J	0.36	0.40	13.6	2.2	0.070	13.8
FERROUS (II)	mg/L	0.0	0.5	0.5	2.5	1.5	0.0	4.0
FERRIC (III)	mg/L	0.031 J	< 0.025	< 0.025	11.1	0.70	0.070	9.8

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**  
**SUPPLEMENTAL ANALYTICAL DATA SUMMARY**  
**September 2022**  
Georgia Power Company - Plant McDonough Ash Pond 2 and 3/4  
Atlanta, Georgia

Analyte	Units	SUPPLEMENTAL SAMPLING										
		B-90	B-91	B-95	B-96	B-99	B-115D	B-116D	B-117D	B-118	B-119D	B-123D
		9/12/2022	9/12/2022	9/12/2022	9/13/2022	9/12/2022	9/14/2022	9/8/2022	9/15/2022	9/9/2022	9/12/2022	9/20/2022
<b>Appendix III</b>												
BORON, TOTAL	mg/L	2.6	2.9	1.5	3.4	2.2	0.58	< 0.0086	0.011 J	< 0.0086	0.048	0.49
CALCIUM, TOTAL	mg/L	--	--	--	--	--	65.5	10.1	9.5	5.2	10.4	90.8
CHLORIDE, TOTAL	mg/L	--	--	--	--	--	10.7	2.4	4.6	3.1	1.8	8.6
FLUORIDE, TOTAL	mg/L	--	--	--	--	--	0.63	0.065 J	0.090 J	0.080 J	0.084 J	0.57
pH	S.U.	5.35	5.26	5.33	5.03	5.71	5.76	5.97	5.86	6.49	6.57	7.13
SULFATE, TOTAL	mg/L	--	--	--	--	--	297	0.54 J	14.4	2.8	2.80	292
TOTAL DISSOLVED SOLIDS	mg/L	--	--	--	--	--	519	82.0	106	78.0	87.0	533
<b>Appendix IV</b>												
ANTIMONY, TOTAL	mg/L	--	--	--	--	--	< 0.00078	< 0.00078	< 0.00078	< 0.00078	0.0015 J	< 0.00078
ARSENIC, TOTAL	mg/L	--	--	--	--	--	< 0.0022	< 0.0022	< 0.0022	< 0.0022	< 0.0022	< 0.0022
BARIUM, TOTAL	mg/L	--	--	--	--	--	0.014	0.017	0.043	0.022	0.0029 J	0.023
BERYLLIUM, TOTAL	mg/L	--	--	--	--	--	0.010	< 0.000054	< 0.000054	< 0.000054	< 0.000054	0.00022 J
CADMIUM, TOTAL	mg/L	--	--	--	--	--	0.00018 J	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011
CHROMIUM, TOTAL	mg/L	--	--	--	--	--	< 0.0011	< 0.0011	< 0.0011	0.0017 J	< 0.0011	< 0.0011
COBALT, TOTAL	mg/L	--	--	--	--	--	0.23	< 0.00039	< 0.00039	< 0.00039	0.0031 J	0.056
FLUORIDE, TOTAL	mg/L	--	--	--	--	--	0.63	0.065 J	0.090 J	0.080 J	0.084 J	0.57
LEAD, TOTAL	mg/L	--	--	--	--	--	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089
LITHIUM, TOTAL	mg/L	--	--	--	--	--	0.082	0.0054 J	0.0094 J	0.0024 J	0.0045 J	0.034
MERCURY, TOTAL	mg/L	--	--	--	--	--	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
MOLYBDENUM, TOTAL	mg/L	--	--	--	--	--	< 0.00074	< 0.00074	< 0.00074	0.0047 J	0.015	0.0015 J
RADIUM (226 + 228)	pCi/L	--	--	--	--	--	13.3	0.686 U	0.875 U	0.787 U	0.328 U	2.95
SELENIUM, TOTAL	mg/L	--	--	--	--	--	0.0045 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
<b>Additional Parameters</b>												
ALKALINITY , BICARBONATE	mg/L	--	--	--	--	--	8.9	50.3	42.0	35.2	60.6	38.5
ALKALINITY , CARBONATE	mg/L	--	--	--	--	--	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
ALKALINITY , TOTAL	mg/L	--	--	--	--	--	8.9	50.3	42.0	35.2	60.6	38.5
MAGNESIUM	mg/L	--	--	--	--	--	16.6	3.4	1.5	2.0	3.2	13.0
POTASSIUM	mg/L	--	--	--	--	--	10.1	2.2	2.6	2.3	2.0	7.6
SODIUM	mg/L	--	--	--	--	--	21.8	7.7	16.6	10.0	10.2	29.0
IRON, TOTAL	mg/L	--	--	--	--	--	7.5	0.087	< 0.025	0.14	1.5	5.4
FERROUS (II)	mg/L	--	--	--	--	--	6.5	0.0	0.0	0.0	0.0	4.5
FERRIC (III)	mg/L	--	--	--	--	--	1.0	0.087	< 0.025	0.14	1.5	0.9

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**  
**January-February 2023**  
Georgia Power Company - Plant McDonough Ash Pond 2 and 3/4  
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
		2/1/2023	1/31/2023	1/31/2023	2/6/2023	2/3/2023	2/7/2023	2/7/2023	2/3/2023	2/2/2023	2/6/2023	2/6/2023	2/1/2023	2/1/2023
<b>Appendix III</b>														
BORON, TOTAL	mg/L	0.051	0.011 J	0.0097 J	0.38	4.5	3.5	0.74	0.61	0.34	1.6	0.51	0.54	0.16
CALCIUM, TOTAL	mg/L	14.1	6.2	5.7	35.3	287	139	26.0	43.8	60.8	58.8	28.3	33.6	11.9
CHLORIDE, TOTAL	mg/L	1.9	2.2	7.3	2.1	11.0	10.0	8.7	14.7	9.9	12.1	6.8	12.2	4.5
FLUORIDE, TOTAL	mg/L	0.10	0.053 J	0.050 J	0.072 J	0.096 J	0.22	0.13	0.90	1.1	< 0.050	0.10	0.090 J	0.067 J
pH	S.U.	6.42	5.59	5.78	5.17	5.77	4.89	5.23	4.02	4.67	5.45	5.90	5.54	5.87
SULFATE, TOTAL	mg/L	13.3	< 0.50	6.80	96.4	949	577	118	277	235	273	142	97.5	45.9
TOTAL DISSOLVED SOLIDS	mg/L	116	163	87.0	226	1630	939	223	437	390	481	251	216	116
<b>Appendix IV</b>														
ANTIMONY, TOTAL	mg/L	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	0.0010 J
ARSENIC, TOTAL	mg/L	0.0029 J	< 0.0022	< 0.0022	< 0.0022	< 0.0022	0.0036 J	< 0.0022	0.014	0.0036 J	< 0.0022	< 0.0022	< 0.0022	< 0.0022
BARIUM, TOTAL	mg/L	0.089	0.041	0.028	0.020	0.034	0.019	0.025	0.019	0.020	0.039	0.047	0.023	0.057
BERYLLIUM, TOTAL	mg/L	0.00016 J	0.000094 J	0.00011 J	< 0.000054	0.00033 J	0.0083	0.00070	0.0046	0.0066	0.00019 J	0.000082 J	0.000067 J	< 0.000054
CADMIUM, TOTAL	mg/L	0.00019 J	< 0.00011	< 0.00011	< 0.00011	0.0010	0.0012	0.00087	0.00053	0.00059	0.00015 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	0.0013 J	0.0013 J	< 0.0011	< 0.0011	< 0.0011	< 0.0011
COBALT, TOTAL	mg/L	0.0080	< 0.00039	< 0.00039	0.0024 J	0.0018 J	0.021	0.0018 J	0.21	0.11	0.0013 J	0.016	< 0.00039	< 0.00039
FLUORIDE, TOTAL	mg/L	0.10	0.053 J	0.050 J	0.072 J	0.096 J	0.22	0.13	0.90	1.1	< 0.050	0.10	0.090 J	0.067 J
LEAD, TOTAL	mg/L	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.0044	< 0.0044	< 0.00089	< 0.00089	< 0.00089	< 0.00089
LITHIUM, TOTAL	mg/L	0.0088 J	< 0.00073	0.0014 J	0.017 J	0.0036 J	0.0072 J	0.0036 J	0.025 J	0.0049 J	0.0018 J	< 0.00073	0.0031 J	0.018 J
MERCURY, TOTAL	mg/L	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	0.00026	< 0.00013	0.00017 J	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
MOLYBDENUM, TOTAL	mg/L	0.023	< 0.00074	< 0.00074	0.0021 J	0.0035 J	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	0.0085 J	< 0.00074
RADIUM (226 + 228)	pCi/L	1.92	0.416 U	0.314 U	0.500 U	1.51	1.26	0.737 U	0.949 U	1.47	0.442 U	1.00 U	0.819 U	0.794 U
SELENIUM, TOTAL	mg/L	< 0.0014	< 0.0014	< 0.0014	0.0014 J	< 0.0014	0.0082	< 0.0014	0.031	0.015	< 0.0014	< 0.0014	0.0036 J	0.0014 J
THALLIUM, TOTAL	mg/L	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00090	< 0.00090	< 0.00018	< 0.00018	< 0.00018	< 0.00018
<b>Additional Parameters</b>														
ALKALINITY , BICARBONATE	mg/L	75.1	29.7	20.3	46.5	121	< 5.0	8.10	< 5.0	< 5.0	14.0	59.0	22.9	27.4
ALKALINITY , CARBONATE	mg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
ALKALINITY , TOTAL	mg/L	75.1	29.7	20.3	46.5	121	< 5.0	8.10	< 5.0	< 5.0	14.0	59.0	22.9	27.4
MAGNESIUM	mg/L	4.6	2.4	0.79	7.2	37.0	24.7	12.5	4.7	5.7	28.6	17.0	7.1	4.5
POTASSIUM	mg/L	3.3	1.7	0.73	4.8	9.5	4.1	3.3	4.6	5.5	3.9	7.4	4.5	7.4
SODIUM	mg/L	7.7	3.5	7.5	8.9	53.6	21.5	11.2	28.2	9.9	20.6	9.9	19.1	8.1
IRON, TOTAL	mg/L	8.4	0.038 J	< 0.025	< 0.025	< 0.025	0.043	< 0.025	0.074	< 0.025	0.059	23.9	< 0.025	0.045

- 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. -- indicates substance not analyzed.
  7. 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**  
**January-February 2023**  
Georgia Power Company - Plant McDonough Ash Pond 2 and 3/4  
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
		2/2/2023	2/6/2023	2/6/2023	2/7/2023	2/7/2023	2/6/2023	2/6/2023	2/1/2023	2/3/2023	2/3/2023	2/7/2023	2/2/2023	2/2/2023
<b>Appendix III</b>														
BORON, TOTAL	mg/L	1.3	0.83	2.2	3.0	5.6	3.8	4.4	0.94	0.16	0.59	1.5	0.064	0.47
CALCIUM, TOTAL	mg/L	32.2	17.5	105	110	84.8	56.7	86.4	32.7	23.7	64.1	20.1	32.4	21.2
CHLORIDE, TOTAL	mg/L	22.1	18.8	17.9	27.9	18.6	16.9	12.4	19.3	2.6	8.2	6.9	5.8	7.0
FLUORIDE, TOTAL	mg/L	0.065 J	0.096 J	0.22	1.1	0.059 J	0.057 J	0.076 J	< 0.050	0.45	0.48	0.19	0.16	0.13
pH	S.U.	5.86	5.13	4.82	4.33	5.70	5.84	5.97	5.17	3.88	4.20	4.55	6.33	5.85
SULFATE, TOTAL	mg/L	137	262	379	517	285	235	262	313	138	301	247	52.1	50.1
TOTAL DISSOLVED SOLIDS	mg/L	288	403	600	848	498	427	532	541	259	527	379	197	198
<b>Appendix IV</b>														
ANTIMONY, TOTAL	mg/L	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078
ARSENIC, TOTAL	mg/L	< 0.0022	< 0.0022	< 0.0022	0.023	< 0.0022	< 0.0022	< 0.0022	< 0.0022	< 0.0022	< 0.0022	0.0050 J	< 0.0022	< 0.0022
BARIUM, TOTAL	mg/L	0.039	0.029	0.025	0.019	0.024	0.027	0.023	0.015	0.019	0.013	0.027	0.019	0.056
BERYLLIUM, TOTAL	mg/L	< 0.000054	0.00051	0.0017	0.0073	0.00016 J	0.00010 J	0.00038 J	0.0022	0.0087	0.0062	0.0012	0.00012 J	0.00028 J
CADMIUM, TOTAL	mg/L	< 0.00011	0.00028 J	0.00029 J	0.0027	0.00059	0.00045 J	0.00021 J	0.00075	0.0013	0.0024	0.00036 J	< 0.00011	< 0.00011
CHROMIUM, TOTAL	mg/L	< 0.0011	0.0026 J	0.0022 J	0.0023 J	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011
COBALT, TOTAL	mg/L	0.0017 J	0.017	0.055	1.0	0.0088	0.0058	0.00064 J	0.0068	0.21	0.31	0.059	< 0.00039	0.027
FLUORIDE, TOTAL	mg/L	0.065 J	0.096 J	0.22	1.1	0.059 J	0.057 J	0.076 J	< 0.050	0.45	0.48	0.19	0.16	0.13
LEAD, TOTAL	mg/L	< 0.00089	< 0.00089	< 0.00089	< 0.0044	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089
LITHIUM, TOTAL	mg/L	0.0050 J	< 0.00073	0.0026 J	0.013 J	0.0056 J	0.0034 J	0.0022 J	0.0068 J	0.048	0.089	0.0054 J	0.0082 J	0.0045 J
MERCURY, TOTAL	mg/L	< 0.00013	0.00014 J	0.00013 J	< 0.00013	< 0.00013	0.00014 J	< 0.00013	< 0.00013	< 0.00013	< 0.00013	0.00034	< 0.00013	< 0.00013
MOLYBDENUM, TOTAL	mg/L	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	0.0070 J	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074
RADIUM (226 + 228)	pCi/L	0.991	0.809 U	1.23	1.92	0.582 U	0.975	1.44	0.599 U	1.80	1.40	1.01 U	1.60	1.01
SELENIUM, TOTAL	mg/L	< 0.0014	0.0057	0.0042 J	0.057	< 0.0014	< 0.0014	< 0.0014	< 0.0014	0.0015 J	< 0.0014	0.010	< 0.0014	< 0.0014
THALLIUM, TOTAL	mg/L	< 0.00018	< 0.00018	0.00059 J	0.0018 J	< 0.00018	< 0.00018	< 0.00018	0.00028 J	0.00022 J	< 0.00018	0.00028 J	< 0.00018	< 0.00018
<b>Additional Parameters</b>														
ALKALINITY , BICARBONATE	mg/L	17.4	< 5.0	< 5.0	< 5.0	28.7	27.3	77.5	7.30	< 5.0	< 5.0	< 5.0	73.3	82.9
ALKALINITY , CARBONATE	mg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
ALKALINITY , TOTAL	mg/L	17.4	< 5.0	< 5.0	< 5.0	28.7	27.3	77.5	7.30	< 5.0	< 5.0	< 5.0	73.3	82.9
MAGNESIUM	mg/L	13.6	51.0	12.0	23.6	16.9	19.9	20.4	23.8	6.7	14.4	35.6	5.0	8.0
POTASSIUM	mg/L	4.2	3.5	3.7	14.1	6.3	5.9	6.5	4.4	4.8	13.3	5.2	2.3	2.8
SODIUM	mg/L	19.7	17.3	37.8	20.9	23.5	25.4	22.4	65.5	7.0	20.8	21.0	9.9	11.0
IRON, TOTAL	mg/L	0.11	< 0.025	< 0.025	< 0.13	< 0.025	< 0.025	< 0.025	0.12	0.87	3.6	0.071	6.5	8.3

- Notes:
1. mg/L - milligrams per Liter
  2. pCi/L - picocuries per Liter
  3. S.U. - Standard Units
  4. < indicates the substance was not detected above the analytical method detection limit (MDL). The value displayed is the 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. -- indicates substance not analyzed.
  7. 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**  
**January-February 2023**  
Georgia Power Company - Plant McDonough Ash Pond 2 and 3/4  
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
		2/7/2023	2/6/2023	2/7/2023	2/3/2023	2/7/2023	1/31/2023	1/31/2023	2/1/2023	1/31/2023	2/2/2023	2/3/2023	2/2/2023	2/3/2023
<b>Appendix III</b>														
BORON, TOTAL	mg/L	2.1	0.31	0.53	0.31	2.3	2.6	3.3	3.7	0.083	1.6	1.1	2.2	0.26
CALCIUM, TOTAL	mg/L	45.3	14.8	37.0	31.4	92.4	95.0	123	192	40.6	46.9	41.8	68.0	142
CHLORIDE, TOTAL	mg/L	8.7	3.5	12.1	2.5	8.4	11.4	15.7	19.4	2.8	11.7	9.1	10.8	7.8
FLUORIDE, TOTAL	mg/L	0.12	0.069 J	0.086 J	0.12	< 0.050	0.20	0.40	0.11	0.19	0.052 J	0.11	0.091 J	0.36
pH	S.U.	6.22	6.53	5.28	5.59	5.59	4.48	4.68	5.47	6.76	5.30	5.95	5.47	6.17
SULFATE, TOTAL	mg/L	276	1.8	402	106	435	393	536	648	8.7	356	159	252	495
TOTAL DISSOLVED SOLIDS	mg/L	497	92.0	611	214	685	688	898	1170	147	595	313	466	842
<b>Appendix IV</b>														
ANTIMONY, TOTAL	mg/L	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	0.0015 J	< 0.00078	0.0010 J	< 0.00078	< 0.00078	< 0.00078	< 0.00078
ARSENIC, TOTAL	mg/L	< 0.0022	< 0.0022	0.0040 J	< 0.0022	< 0.0022	0.0023 J	0.0028 J	< 0.0022	< 0.0022	< 0.0022	< 0.0022	< 0.0022	< 0.0022
BARIUM, TOTAL	mg/L	0.023	0.11	0.023	0.024	0.017	0.015	0.015	0.021	0.041	0.098	0.048	0.020	0.017
BERYLLIUM, TOTAL	mg/L	< 0.000054	< 0.000054	0.0018	0.00038 J	0.0016	0.017	0.016	0.0017	< 0.000054	< 0.000054	0.000063 J	0.00091	0.0016
CADMIUM, TOTAL	mg/L	< 0.00011	< 0.00011	0.00081	0.00030 J	0.0033	0.0015	0.00089	0.00063	< 0.00011	< 0.00011	< 0.00011	0.00087	< 0.00011
CHROMIUM, TOTAL	mg/L	< 0.0011	< 0.0011	0.0013 J	0.0026 J	< 0.0011	< 0.0011	< 0.0011	< 0.0011	0.0014 J	< 0.0011	< 0.0011	< 0.0011	< 0.0011
COBALT, TOTAL	mg/L	0.015	< 0.00039	0.0028 J	0.012	0.0031 J	0.080	0.067	0.0033 J	< 0.00039	< 0.00039	0.0022 J	0.011	0.17
FLUORIDE, TOTAL	mg/L	0.12	0.069 J	0.086 J	0.12	< 0.050	0.20	0.40	0.11	0.19	0.052 J	0.11	0.091 J	0.36
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	0.00073 J	0.0025 J	0.0071 J	0.014 J	0.011 J	0.0048 J	0.00089 J	< 0.00073	0.0080 J	0.011 J	0.037
MERCURY, TOTAL	mg/L	0.00029	< 0.00013	< 0.00013	< 0.00013	< 0.00013	0.00017 J	< 0.00013	< 0.00013	< 0.00013	< 0.00013	0.00029	< 0.00013	< 0.00013
MOLYBDENUM, TOTAL	mg/L	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	0.0014 J	0.19	< 0.00074	< 0.00074	< 0.00074
RADIUM (226 + 228)	pCi/L	0.764 U	0.747 U	0.776 U	0.279 U	1.77	2.04	1.68	1.33	0.873 U	0.981	0.426 U	0.676 U	14.8
SELENIUM, TOTAL	mg/L	< 0.0014	< 0.0014	0.0025 J	0.021	0.0024 J	0.0086	0.013	0.0036 J	< 0.0014	< 0.0014	< 0.0014	< 0.0014	0.0018 J
THALLIUM, TOTAL	mg/L	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	0.00021 J	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018
<b>Additional Parameters</b>														
ALKALINITY , BICARBONATE	mg/L	76.0	114	11.6	31.4	12.5	< 5.0	< 5.0	54.6	118	11.4	35.0	12.6	62.0
ALKALINITY , CARBONATE	mg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
ALKALINITY , TOTAL	mg/L	76.0	114	11.6	31.4	12.5	< 5.0	< 5.0	54.6	118	11.4	35.0	12.6	62.0
MAGNESIUM	mg/L	40.5	5.4	74.3	9.1	33.6	16.6	21.8	34.2	2.7	42.6	15.8	15.7	27.0
POTASSIUM	mg/L	4.9	1.9	5.6	2.3	9.2	6.0	6.3	5.5	5.5	1.1	5.3	6.1	7.8
SODIUM	mg/L	28.3	6.0	15.8	9.7	25.0	17.6	22.9	38.1	3.1	26.1	16.2	17.3	17.7
IRON, TOTAL	mg/L	1.6	38.8	0.12	< 0.025	0.095	< 0.025	< 0.025	< 0.025	0.12	20.9	0.28	0.061	10.3

- Notes:
1. mg/L - milligrams per Liter
  2. pCi/L - picocuries per Liter
  3. S.U. - Standard Units
  4. < indicates the substance was not detected above the analytical method detection limit (MDL). The value displayed is the 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. -- indicates substance not analyzed.
  7. 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**  
**January-February 2023**  
Georgia Power Company - Plant McDonough Ash Pond 2 and 3/4  
Atlanta, Georgia

Analyte	UNITS	ASSESSMENT MONITORING WELLS							
		B-106D	B-107D	B-108D	B-109D	B-111D	B-120D	B-122D	B-125D
		2/7/2023	2/6/2023	2/7/2023	2/6/2023	2/7/2023	2/3/2023	2/6/2023	4/10/2023
<b>Appendix III</b>									
BORON, TOTAL	mg/L	0.95	10	6.4	0.67	0.16	1.5	0.26	1.0
CALCIUM, TOTAL	mg/L	30.7	76.0	83.1	37.6	91.5	121	47.3	139
CHLORIDE, TOTAL	mg/L	6.8	13.6	27.6	3.5	9.9	6.1	15.4	7.4
FLUORIDE, TOTAL	mg/L	0.067 J	< 0.050	< 0.050	0.14	0.36	0.052 J	0.21	0.13
pH	S.U.	5.86	5.90	5.92	6.44	7.30	5.59	6.08	5.98
SULFATE, TOTAL	mg/L	127	299	313	111	229	464	108	507
TOTAL DISSOLVED SOLIDS	mg/L	246	608	563	416	489	803	392	908
<b>Appendix IV</b>									
ANTIMONY, TOTAL	mg/L	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	--
ARSENIC, TOTAL	mg/L	< 0.0022	< 0.0022	< 0.0022	< 0.0022	< 0.0022	< 0.0022	< 0.0022	--
BARIUM, TOTAL	mg/L	0.022	0.049	0.051	0.057	0.028	0.021	0.040	--
BERYLLIUM, TOTAL	mg/L	0.000084 J	< 0.000054	< 0.000054	0.000073 J	< 0.000054	0.0010	0.00034 J	--
CADMIUM, TOTAL	mg/L	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	0.0011	< 0.00011	--
CHROMIUM, TOTAL	mg/L	0.0013 J	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	--
COBALT, TOTAL	mg/L	< 0.00039	0.00070 J	0.0010 J	< 0.00039	0.00040 J	0.0025 J	0.0070	--
FLUORIDE, TOTAL	mg/L	0.067 J	< 0.050	< 0.050	0.14	0.36	0.052 J	0.21	--
LEAD, TOTAL	mg/L	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	--
LITHIUM, TOTAL	mg/L	0.0053 J	0.014 J	0.014 J	0.012 J	0.018 J	0.068	0.014 J	0.034
MERCURY, TOTAL	mg/L	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	--
MOLYBDENUM, TOTAL	mg/L	< 0.00074	< 0.00074	< 0.00074	0.0014 J	0.0077 J	< 0.00074	0.0011 J	--
RADIUM (226 + 228)	pCi/L	0.642 U	0.459 U	0.975	17.7	6.24	1.81	8.22	--
SELENIUM, TOTAL	mg/L	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	0.0050 J	< 0.0014	--
THALLIUM, TOTAL	mg/L	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	--
<b>Additional Parameters</b>									
ALKALINITY , BICARBONATE	mg/L	30.7	28.7	26.1	88.2	109	27.0	112	--
ALKALINITY , CARBONATE	mg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--
ALKALINITY , TOTAL	mg/L	30.7	28.7	26.1	88.2	109	27.0	112	--
MAGNESIUM	mg/L	15.0	29.6	32.3	11.4	8.5	28.0	9.5	--
POTASSIUM	mg/L	3.4	5.8	5.2	7.2	5.6	8.5	3.5	--
SODIUM	mg/L	13.0	17.7	17.1	20.7	39.6	29.0	25.6	--
IRON, TOTAL	mg/L	0.026 J	0.41	0.37	13.2	2.0	0.051	11.4	--

- 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. -- indicates substance not analyzed.
  7. 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**  
**SUPPLEMENTAL ANALYTICAL DATA SUMMARY**  
**January-February 2023**  
Georgia Power Company - Plant McDonough Ash Pond 2 and 3/4  
Atlanta, Georgia

Analyte	Units	SUPPLEMENTAL SAMPLING						
		B-90	B-91	B-95	B-96	B-99	B-115D	B-123D
		1/31/2023	1/31/2023	2/1/2023	1/31/2023	2/1/2023	2/6/2023	2/9/2023
<b>Appendix III</b>								
BORON, TOTAL	mg/L	3.1	3.0	1.4	3.2	1.9	0.65	0.59
CALCIUM, TOTAL	mg/L	--	--	--	--	--	54.4	82.4
CHLORIDE, TOTAL	mg/L	--	--	--	--	--	19.9	10.1
FLUORIDE, TOTAL	mg/L	--	--	--	--	--	0.85	0.89
pH	S.U.	5.36	5.28	5.26	5.04	5.61	4.90	6.28
SULFATE, TOTAL	mg/L	--	--	--	--	--	296	348
TOTAL DISSOLVED SOLIDS	mg/L	--	--	--	--	--	550	619
<b>Appendix IV</b>								
ANTIMONY, TOTAL	mg/L	--	--	--	--	--	< 0.00078	< 0.00078
ARSENIC, TOTAL	mg/L	--	--	--	--	--	< 0.0022	< 0.0022
BARIUM, TOTAL	mg/L	--	--	--	--	--	0.017	0.023
BERYLLIUM, TOTAL	mg/L	--	--	--	--	--	0.011	0.0016
CADMIUM, TOTAL	mg/L	--	--	--	--	--	0.00049 J	< 0.00011
CHROMIUM, TOTAL	mg/L	--	--	--	--	--	< 0.0011	< 0.0011
COBALT, TOTAL	mg/L	--	--	--	--	--	0.27	0.096
FLUORIDE, TOTAL	mg/L	--	--	--	--	--	0.85	0.89
LEAD, TOTAL	mg/L	--	--	--	--	--	< 0.00089	< 0.00089
LITHIUM, TOTAL	mg/L	--	--	--	--	--	0.082	0.048
MERCURY, TOTAL	mg/L	--	--	--	--	--	< 0.00013	< 0.00013
MOLYBDENUM, TOTAL	mg/L	--	--	--	--	--	< 0.00074	0.00077 J
RADIUM (226 + 228)	pCi/L	--	--	--	--	--	8.60	1.63
SELENIUM, TOTAL	mg/L	--	--	--	--	--	0.0051	< 0.0014
THALLIUM, TOTAL	mg/L	--	--	--	--	--	< 0.00018	< 0.00018
<b>Additional Parameters</b>								
ALKALINITY , BICARBONATE	mg/L	--	--	--	--	--	< 5.0	53.9
ALKALINITY , CARBONATE	mg/L	--	--	--	--	--	< 5.0	< 5.0
ALKALINITY , TOTAL	mg/L	--	--	--	--	--	< 5.0	53.9
MAGNESIUM	mg/L	--	--	--	--	--	17.4	14.3
POTASSIUM	mg/L	--	--	--	--	--	16.6	7.1
SODIUM	mg/L	--	--	--	--	--	30.4	24.2
IRON, TOTAL	mg/L	--	--	--	--	--	0.17	25.0

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 6A**  
**SURFACE WATER ANALYTICAL DATA SUMMARY**  
**September 2022**  
Georgia Power Company - Plant McDonough Ash Pond 2 and 3/4  
Atlanta, Georgia

Analyte	Units	SURFACE WATER SAMPLES						
		CR+0.4	CR+0.2	Dewatering Downstream (DW_DS)	Dewatering Upstream (DW_US)	CR-0.1	CR-0.2	CR-0.5
		10/27/2022	10/27/2022	10/27/2022	10/27/2022	10/27/2022	10/27/2022	10/27/2022
<b>Appendix III</b>								
Boron	mg/L	< 0.040	< 0.040	0.070	< 0.040	0.041	0.046	0.048
Calcium	mg/L	7.7	7.8	14.4	7.6	8.1	7.7	7.9
Chloride	mg/L	11.7	11.9	25.6	12.0	12.7	12.3	12.8
Fluoride	mg/L	0.18	0.18	0.36	0.17	0.19	0.18	0.17
Sulfate	mg/L	7.6	7.7	36.4	7.0	9.1	7.1	7.3
Total Dissolved Solids	mg/L	55.0	36.0	52.0	67.0	42.0	104	75.0
<b>Appendix IV</b>								
Arsenic	mg/L	< 0.0050	--	--	--	--	--	--
Cobalt	mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Lithium	mg/L	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Molybdenum	mg/L	< 0.010	--	--	--	--	--	--
<b>Major Ions</b>								
Alkalinity, Total as CaCO3	mg/L	27.3	27.0	39.3	26.7	27.4	27.4	27.2
Alkalinity, Bicarbonate (CaCO3)	mg/L	27.3	27.0	39.3	26.7	27.4	27.4	27.2
Magnesium	mg/L	2.3	2.3	4.0	2.2	2.4	2.3	2.3
Potassium	mg/L	4.3	4.3	7.3	4.1	4.3	4.2	4.3
Sodium	mg/L	12.8	12.9	29.4	12.2	13.8	12.5	12.8

Notes:

mg/L = milligrams per liter

< 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**  
**February 2023**  
Georgia Power Company - Plant McDonough Ash Pond 2 and 3/4  
Atlanta, Georgia

Analyte	Units	SURFACE WATER SAMPLES						
		CR+0.4	CR+0.2	Dewatering Downstream (DW_DS)	Dewatering Upstream (DW_US)	CR-0.1	CR-0.2	CR-0.5
		2/7/2023	2/7/2023	2/7/2023	2/7/2023	2/7/2023	2/7/2023	2/7/2023
<b>Appendix III</b>								
Boron	mg/L	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040
Calcium	mg/L	5.3	5.5	4.8	5.0	5.7	4.6	4.7
Chloride	mg/L	8.9	9.0	9.1	8.7	9.5	8.5	8.5
Fluoride	mg/L	0.11	< 0.10	0.11	< 0.10	0.11	< 0.10	< 0.10
Sulfate	mg/L	7.2	7.3	7.9	6.0	8.3	5.8	5.8
Total Dissolved Solids	mg/L	45.0	54.0	93.0	70.0	50.0	37.0	45.0
<b>Appendix IV</b>								
Arsenic	mg/L	< 0.0050	--	--	--	--	--	--
Cobalt	mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Lithium	mg/L	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030
Molybdenum	mg/L	< 0.010	--	--	--	--	--	--
<b>Major Ions</b>								
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	25.9	26.5	25.8	26.3	26.0	25.5	24.8
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	mg/L	25.9	26.5	25.8	26.3	26.0	25.5	24.8
Magnesium	mg/L	1.8	1.9	1.6	1.8	1.9	1.6	1.6
Potassium	mg/L	3.0	2.8	2.5	3.0	2.9	2.5	2.6
Sodium	mg/L	7.5	8.0	6.9	7.5	8.1	6.7	6.8
<b>Radium</b>								
Total Radium <sup>[1]</sup>	pCi/L	0.644 U	0.516 U	0.572 U	1.45 U	0.421 U	0.658 U	0.447 U

Notes:

mg/L = milligrams per liter; pCi/L = picocuries per Liter

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

"--" = analysis was not performed.

<sup>[1]</sup> = Radium samples were collected on February 21, 2023.

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 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 2022 <sup>[1]</sup>	Site Specific Background January-February 2023 <sup>[1]</sup>	GWPS September 2022	GWPS January-February 2023
Antimony	mg/L	0.006	--	0.003 <sup>[2]</sup>	0.003 <sup>[2]</sup>	0.006	0.006
Arsenic	mg/L	0.01	--	0.005 <sup>[2]</sup>	0.0054	0.01	0.01
Barium	mg/L	2	--	0.19	0.19	2	2
Beryllium	mg/L	0.004	--	0.0009	0.0009	0.004	0.004
Cadmium	mg/L	0.005	--	0.0005 <sup>[2]</sup>	0.0005 <sup>[2]</sup>	0.005	0.005
Chromium	mg/L	0.1	--	0.005 <sup>[2]</sup>	0.005 <sup>[2]</sup>	0.1	0.1
Cobalt	mg/L	NA	0.006	0.0322	0.0322	0.0322	0.0322
Fluoride	mg/L	4	--	0.42	0.42	4	4
Lead	mg/L	NA	0.015	0.001 <sup>[2]</sup>	0.001 <sup>[2]</sup>	0.015	0.015
Lithium	mg/L	NA	0.04	0.03 <sup>[2]</sup>	0.03 <sup>[2]</sup>	0.04	0.04
Mercury	mg/L	0.002	--	0.0002 <sup>[2]</sup>	0.0002 <sup>[2]</sup>	0.002	0.002
Molybdenum	mg/L	NA	0.1	0.0409	0.0409	0.1	0.1
Radium (226 + 228)	pCi/L	5	--	4.8	5.008	5.000	5.008
Selenium	mg/L	0.05	--	0.005 <sup>[2]</sup>	0.005 <sup>[2]</sup>	0.05	0.05
Thallium	mg/L	0.002	--	0.001 <sup>[2]</sup>	0.001 <sup>[2]</sup>	0.002	0.002

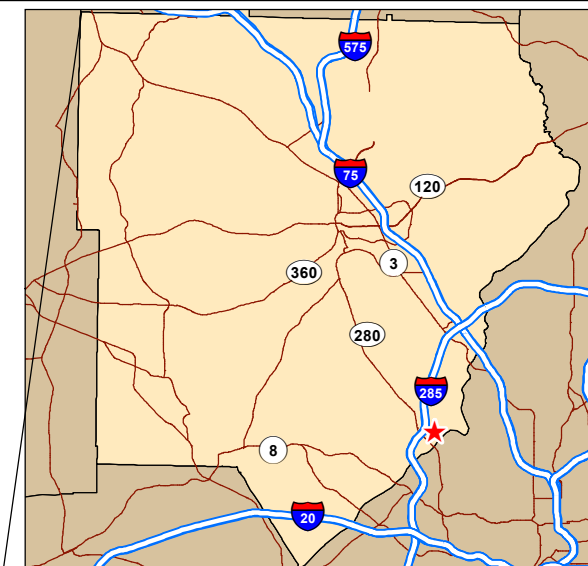
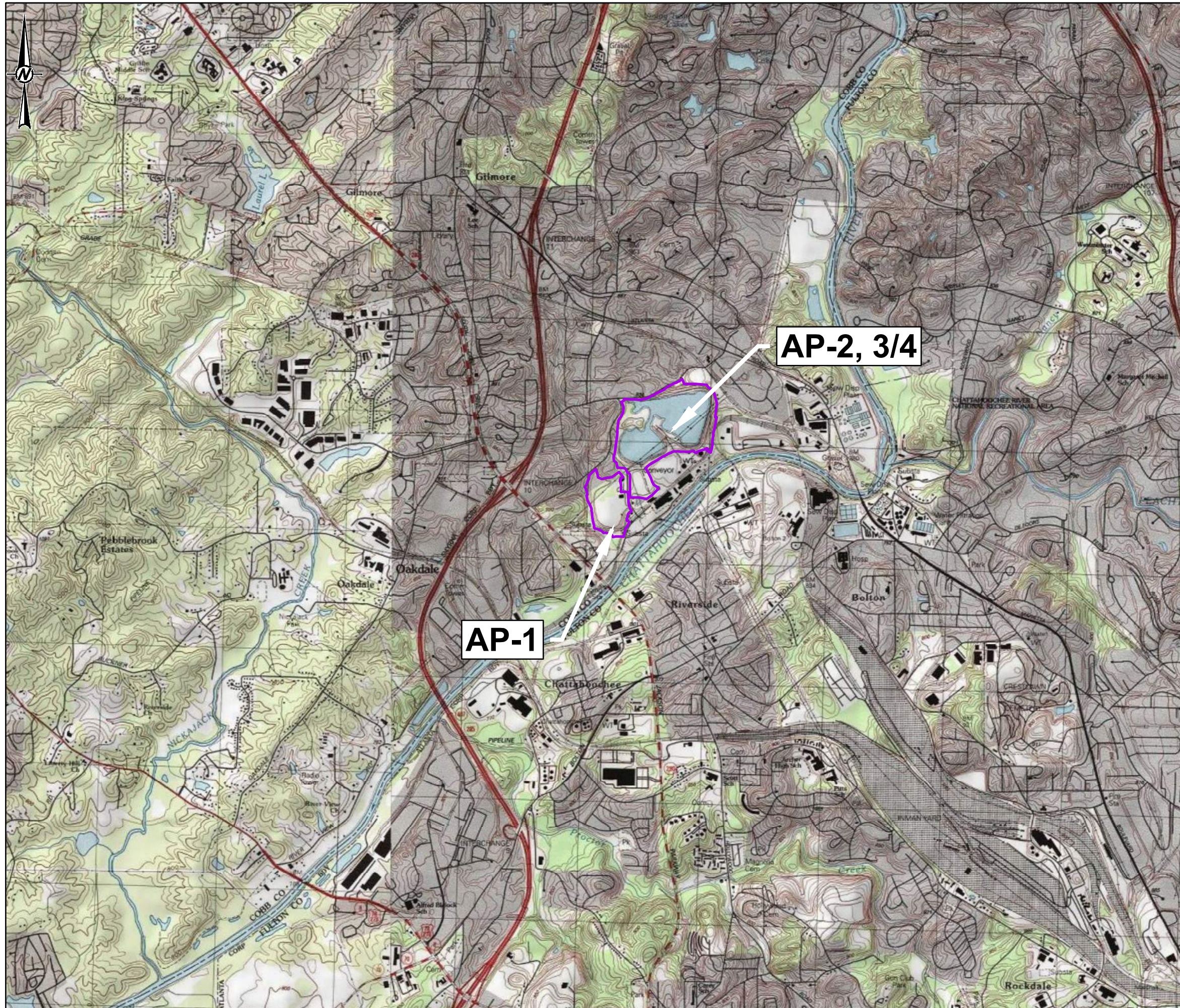
Notes:

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).

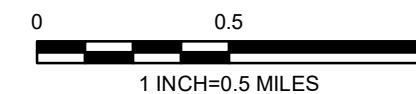
[2] The background tolerance limit (TL) used to evaluate GWPS for this analyte equals the laboratory specified reporting limit (RL). Per the Statistical Analysis Plan, and in accordance with the Unified Guidance, a non-parametric limit approach was used when the data set contains greater than 50% non-detect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

## FIGURES



**REFERENCE**

SERVICE LAYER CREDITS: COPYRIGHT:© 2013 NATIONAL GEOGRAPHIC SOCIETY, I-CUBED



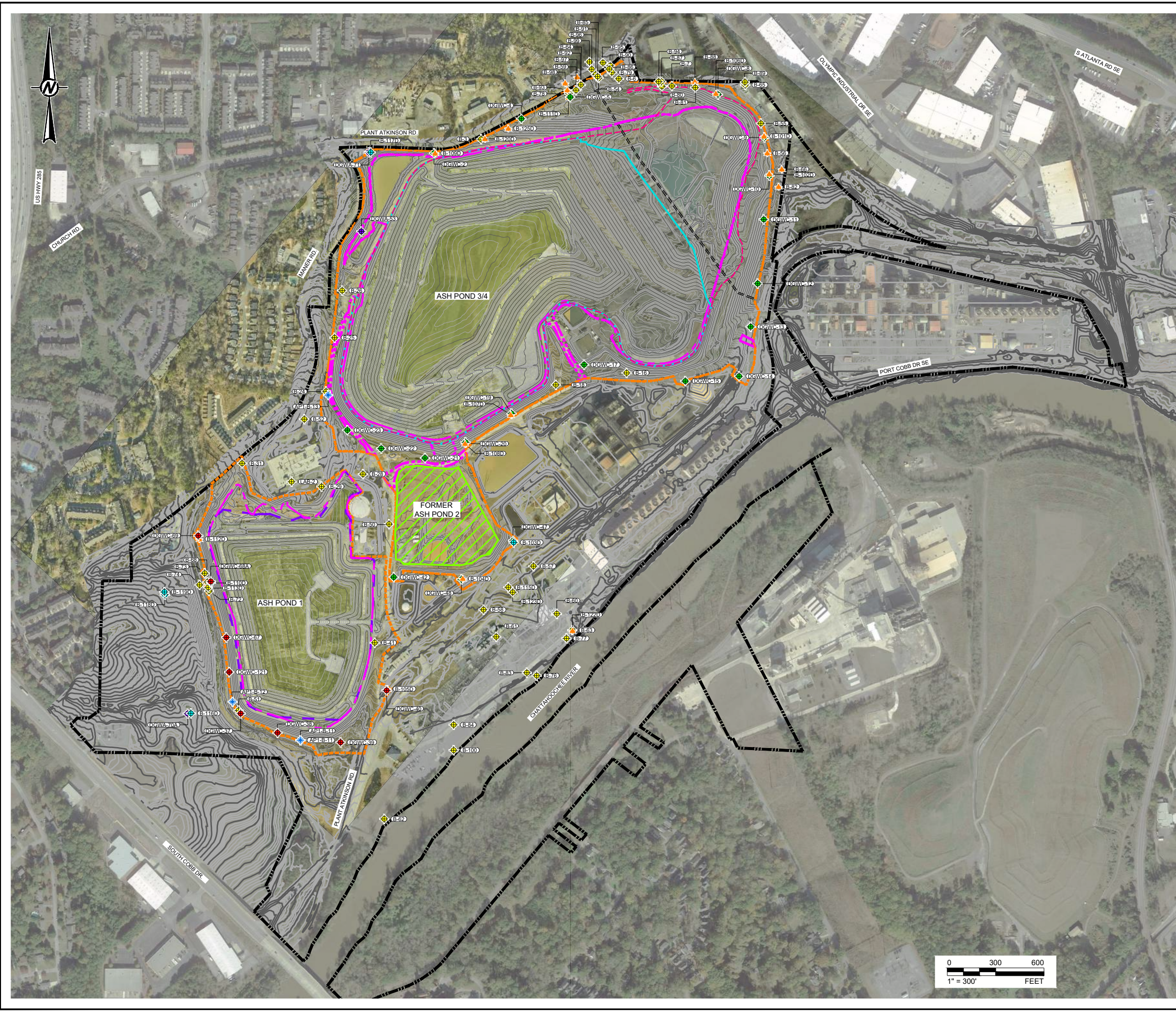
CLIENT  
 GEORGIA POWER COMPANY  
 PLANT MCDONOUGH-ATKINSON



PROJECT  
 2023 ANNUAL GROUNDWATER MONITORING AND  
 CORRECTIVE ACTION REPORT-ASH POND 2 AND 3/4

TITLE  
**SITE LOCATION MAP**

CONSULTANT	YYYY-MM-DD	2022-4-26
	PREPARED	SEB
	DESIGN	SEB
	CHECKED	DLP
	REVIEWED/APPROVED	RNQ



**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
- ASSESSMENT WELLS
- PIEZOMETER
- GOLDER 2017 BORINGS
- PIEZOMETERS GOLDER 2021 (SEE REFERENCE 3)
- AREA WHERE ASH HAS BEEN CERTIFIED REMOVED AS OF 2/28/2022

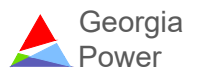
**NOTES**

1. EXISTING TOPOGRAPHIC CONTOUR INTERVAL = 1 FOOT.
2. 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 AT AP-1 ARE EXPECTED BY 2023. A PLANNED BARRIER WALL INSTALLATION IS CURRENTLY UNDER REVIEW WITH EPD.
- 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 AND IS EXPECTED TO BE COMPLETE IN 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 2023.

**REFERENCES**

1. APPROXIMATE PROPERTY BOUNDARY PROVIDED BY SOUTHERN COMPANY SERVICES (2017).
2. THE EXISTING TOPOGRAPHY, CONTOUR ELEVATIONS FOR THE ASH PONDS 1 THROUGH 4 AREAS PROVIDED BY GEORGIA POWER COMPANY ON FEBRUARY 2023.
- THE EXISTING AERIAL IMAGERY FOR THE ASH PONDS 1 THROUGH 4 AREAS PROVIDED BY GEORGIA POWER COMPANY. DATE OF THE AERIAL IMAGERY PROVIDED, AND SHOWN ON THIS PLAN FOR AP- 1 THROUGH 4 IS JANUARY, 2023.
3. SELECT BORING/PIEZOMETER LOCATIONS AND ELEVATIONS RESURVEYED BY METRO ENGINEERING & SURVEYING CO., INC., 2020 / 2021.
4. COORDINATES SYSTEM: NAD 1983 STATE PLANE GEORGIA WEST (U.S. FEET); ELEVATIONS DISPLAY IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM 1988 ( FEET NAVD88).
5. AERIAL IMAGERY FOR THE SURROUNDING AREAS OF ASH PONDS 1 THROUGH 4 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  
**2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTIONS REPORT ASH POND 2 & ASH POND 3/4**

TITLE  
**PLANT MCDONOUGH CCR REMOVAL AREA**

CONSULTANT	YYYY-MM-DD	2023-06-30
	DESIGNED	SEB
	PREPARED	CRP
	CHECKED	DLP
	REVIEWED / APPROVED	RNQ

PROJECT NO. 166849622 REV. FIGURE 2

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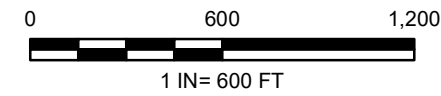
1 in IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI D



- LEGEND**
- ◆ AP-1 MONITORING WELL
  - ◆ AP-2,3/4 MONITORING WELL
  - ◆ UPGRADIENT WELL
  - ◆ ASSESSMENT MONITORING WELLS
  - ◆ PIEZOMETER
  - ◆ TEMPORARY AEM WELL
  - ◆ SURFACE WATER MONITORING LOCATION
  - ◆ 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 JANUARY 2023 PROVIDED BY GPC.  
 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, MAY 2021, AND MAY 2023.



CLIENT  
 GEORGIA POWER COMPANY  
 PLANT MCDONOUGH-ATKINSON

PROJECT  
 2023 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	2023-07-06
	PREPARED	SEB
	DESIGN	DLP
	CHECKED	DP/RPK
	REVIEWED/APPROVED	RNQ

Path: C:\Users\labodie\OneDrive\Documents\166849622\SCS Plant McDonough GW Cons Svcs GA - 800\_Shapefiles\MXD\Corrective Action Report\2023\Annual\AP-23\Figure3\Monitoring\_Well\_PiezometerandSWMap.mxd

THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN. THIS SHEET HAS BEEN MODIFIED FROM ANS.B



**LEGEND**

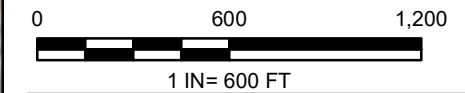
- AP-1 MONITORING WELL
- AP-2,3/4 MONITORING WELL
- UPGRADIENT WELL
- ASSESSMENT MONITORING WELLS
- PIEZOMETER
- TEMPORARY AEM WELL
- APPROXIMATE GROUNDWATER FLOW
- GROUNDWATER SURFACE CONTOUR (FT.)
- SURFACE WATER STREAM
- PERMIT BOUNDARY
- PROPERTY BOUNDARY
- EXISTING TOPOGRAPHY 10-FOOT
- EXISTING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

**NOTES**

1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.
2. GROUNDWATER ELEVATION MEASUREMENTS OBTAINED SEPTEMBER 6, 2022 BY WSP GOLDR.
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. NM = NOT MEASURED.

**REFERENCE**

1. AERIAL IMAGE DATED NOVEMBER 2019 FROM GOOGLE EARTH AND AUGUST 31, 2022 PROVIDED BY GPC.
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, MAY 2021, AND MAY 2023.



CLIENT  
 GEORGIA POWER COMPANY  
 PLANT MCDONOUGH-ATKINSON

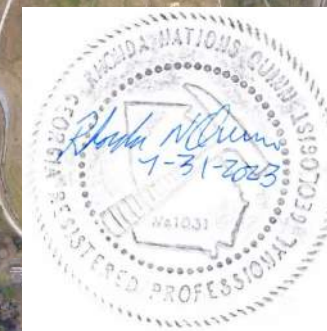


PROJECT  
 2023 ANNUAL GROUNDWATER MONITORING AND  
 CORRECTIVE ACTION REPORT-ASH POND 2 AND 3/4

TITLE  
**SITE POTENTIOMETRIC MAP – SEPTEMBER 6, 2022**

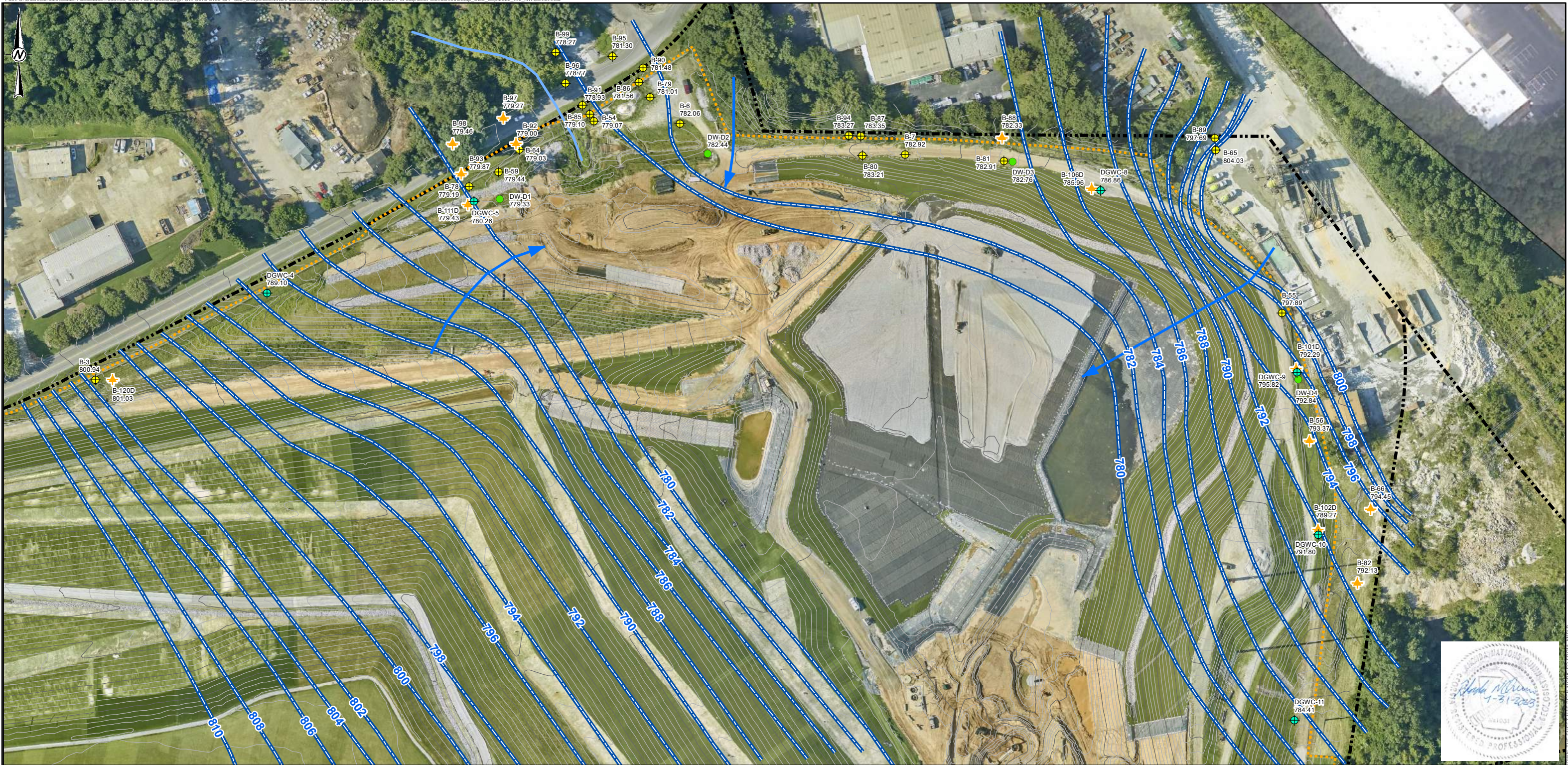
CONSULTANT	YYYY-MM-DD	2022-10-07
	PREPARED	SEB
	DESIGN	SEB
	CHECKED	DLP
	REVIEWED/APPROVED	RNQ

PROJECT No. 166849622      Rev. 0      FIGURE 4A



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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
  - TEMPORARY AEM 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

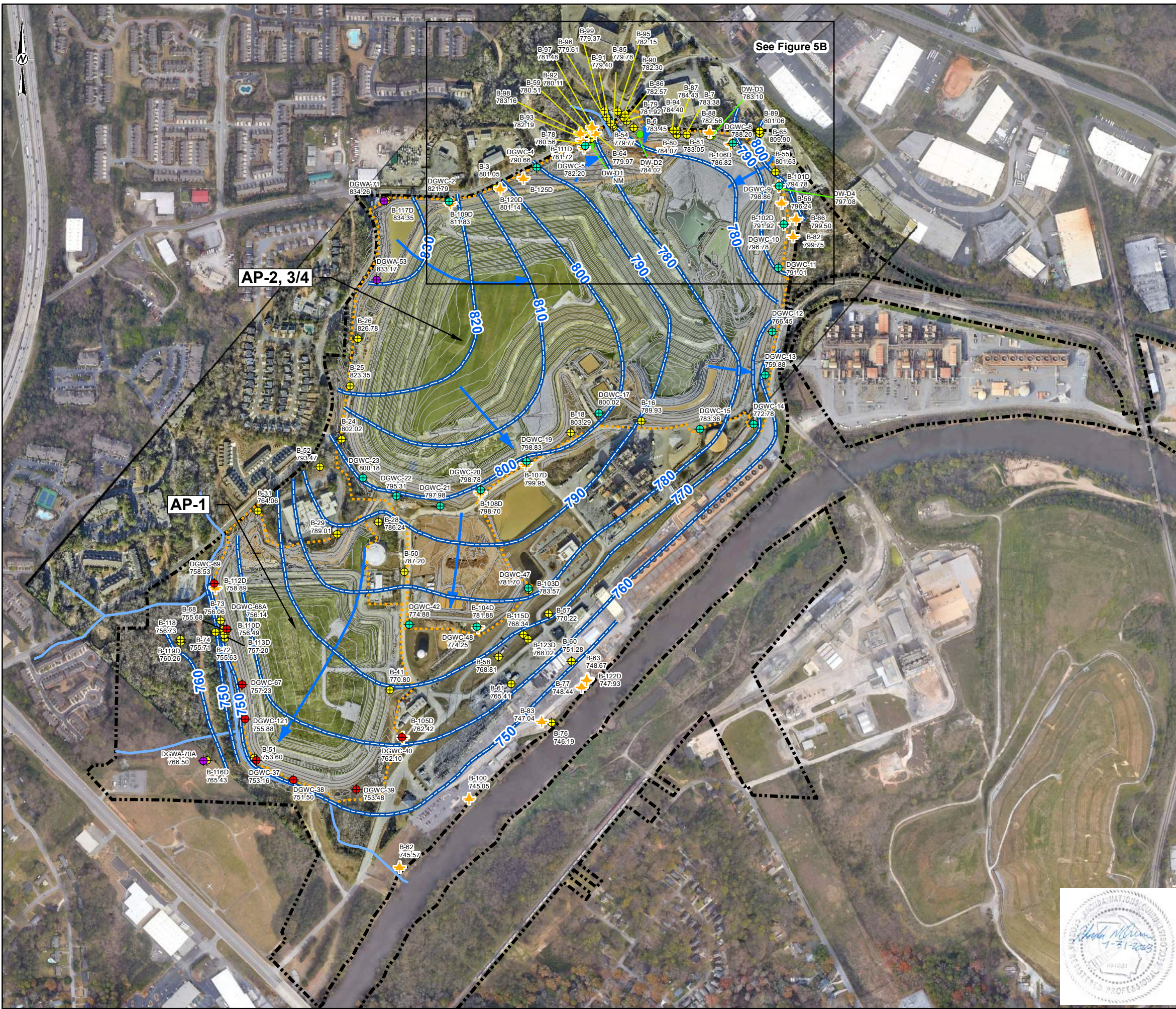
- NOTES**
1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.
  2. GROUNDWATER ELEVATION MEASUREMENTS OBTAINED SEPTEMBER 6, 2022 BY WSP GOLDR.
  3. GROUNDWATER ELEVATIONS DISPLAYED IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM (FT NAVD88).
  4. WELLS AND PIEZOMETERS THAT CONTAIN A "D" DESIGNATION FOLLOWING THE NUMBER ARE DEEP WELLS AND ELEVATIONS ARE NOT USED FOR CONTOURING.

- REFERENCE**
1. AERIAL IMAGE DATED NOVEMBER 2019 FROM GOOGLE EARTH AND AUGUST 31, 2022 PROVIDED BY GPC.
  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, MAY 2021, MAY 2023.



<b>CLIENT</b>			
GEORGIA POWER COMPANY PLANT MCDONOUGH-ATKINSON			
<b>PROJECT</b>			
2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT-ASH POND 2 AND 3/4			
<b>TITLE</b>			
<b>(INSET) SITE POTENTIOMETRIC MAP SEPTEMBER 6, 2022</b>			
<b>CONSULTANT</b>		YYYY-MM-DD 2022-10-25	
		PREPARED SEB	
		DESIGN SEB	
		CHECKED DLP	
		REVIEW/APPROVED RNQ	
<b>PROJECT NO.</b> 166849622	<b>CONTROL</b>	<b>REV.</b> 0	<b>FIGURE</b> 4B

VERTICAL MEASUREMENT DOES NOT MATCH WHAT IS SHOWN. THE SHEET HAS BEEN MODIFIED FROM PLAN 16

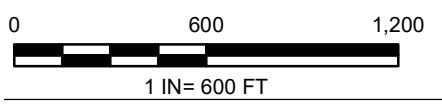


**LEGEND**

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

- NOTES**
1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.
  2. GROUNDWATER ELEVATION MEASUREMENTS OBTAINED JANUARY 31, 2023 BY WSP.
  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. NM = NOT MEASURED.

- REFERENCE**
1. AERIAL IMAGE DATED NOVEMBER 2019 FROM GOOGLE EARTH AND JANUARY 2023 PROVIDED BY GPC.
  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, MAY 2021, AND MAY 2023.



CLIENT  
**GEORGIA POWER COMPANY**  
 PLANT MCDONOUGH-ATKINSON



PROJECT  
 2023 ANNUAL GROUNDWATER MONITORING AND  
 CORRECTIVE ACTION REPORT-ASH POND 2 AND 3/4

TITLE  
**SITE POTENTIOMETRIC MAP – JANUARY 31, 2023**

CONSULTANT	YYYY-MM-DD	2023-07-06
	PREPARED	SEB
	DESIGN	SEB
	CHECKED	DLP
	REVIEWED/APPROVED	RPK

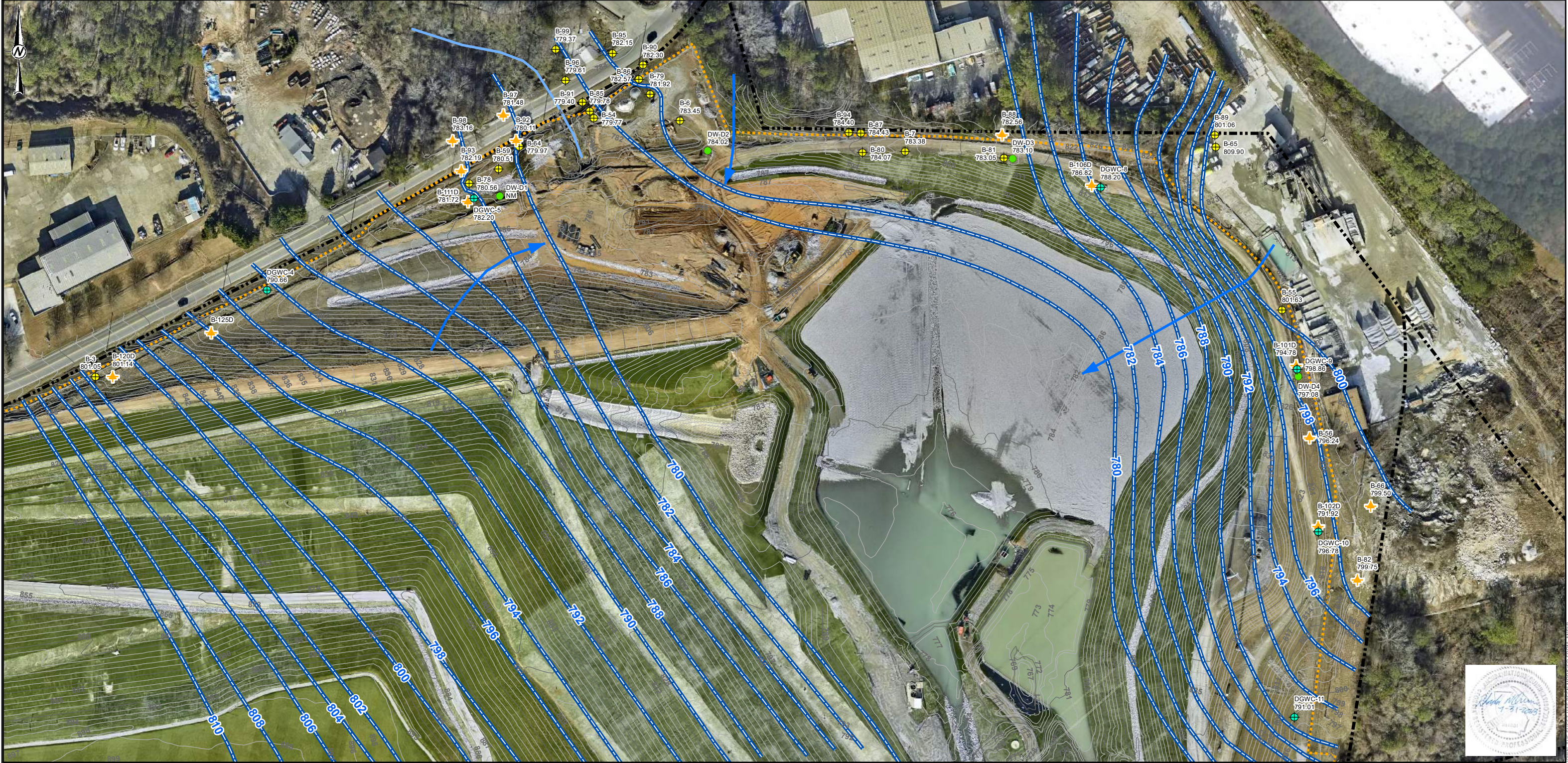
PROJECT No. 166849622      Rev. 0      FIGURE 5A



Path: C:\Users\labodie\OneDrive\Assoctea116849622\SCS Plant McDonough\GW Cons Svcs\_GA - 800\_Site\pfiles\MXD\Potentiometric\_Surface\_Maps\0 12023 Pot Maps\SitePotentiometricMap\_Jan2023\_WL.mxd

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
  - TEMPORARY AEM 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 31, 2023 BY WSP.
  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.

- REFERENCE**
1. AERIAL IMAGE DATED NOVEMBER 2019 FROM GOOGLE EARTH AND JANUARY 2023 PROVIDED BY GPC.
  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  
 2023 ANNUAL GROUNDWATER MONITORING AND  
 CORRECTIVE ACTION REPORT-ASH POND 2 AND 3/4

TITLE  
**(INSET) SITE POTENTIOMETRIC MAP**  
**JANUARY 31, 2023**

CONSULTANT  
 WSP

YYYY-MM-DD	2023-07-06
PREPARED	SEB
DESIGN	SEB
CHECKED	DLP
REVIEW/APPROVED	RPK

PROJECT NO. CONTROL  
 166849622

REV. 0

FIGURE  
**5B**

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

**APPENDIX A**

# Field Data Forms and Instrument Calibration Records

**APPENIDX A**

**Field Data Forms, September 2022**

# Low-Flow Test Report:

Test Date / Time: 9/8/2022 10:03:35 AM

Project: Plant McDonough

Operator Name: Jude Waguespack

<b>Location Name: DGWA-53</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 26.89 ft</b> <b>Total Depth: 36.89 ft</b> <b>Initial Depth to Water: 14.2 ft</b>	<b>Pump Type: peristaltic</b> <b>Tubing Type: LDPE</b> <b>Tubing Inner Diameter: 0.175 cm</b> <b>Tubing Length: 42 m</b> <b>Pump Intake From TOC: 31 ft</b> <b>Estimated Total Volume Pumped: 30750 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 150 ml/min</b> <b>Final Draw Down: 13.25 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 728541</b>
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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 %	+/- 2	+/- 10	+/- 0.3	
9/8/2022 10:03 AM	00:00	6.60 pH	82.46 °F	0.17 µS/cm	5.60 mg/L	42.90 NTU	106.3 mV	14.20 ft	150.00 ml/min
9/8/2022 10:08 AM	05:00	6.12 pH	70.29 °F	0.17 µS/cm	2.33 mg/L	40.80 NTU	83.9 mV	15.53 ft	150.00 ml/min
9/8/2022 10:13 AM	10:00	6.13 pH	69.19 °F	0.17 µS/cm	2.42 mg/L	40.40 NTU	90.5 mV	16.81 ft	150.00 ml/min
9/8/2022 10:18 AM	15:00	6.14 pH	69.91 °F	0.17 µS/cm	2.49 mg/L	39.90 NTU	91.7 mV	17.75 ft	150.00 ml/min
9/8/2022 10:23 AM	20:00	6.14 pH	70.15 °F	0.17 µS/cm	2.61 mg/L	38.80 NTU	93.4 mV	18.58 ft	150.00 ml/min
9/8/2022 10:28 AM	25:00	6.15 pH	70.09 °F	0.17 µS/cm	2.62 mg/L	38.80 NTU	94.4 mV	19.43 ft	150.00 ml/min
9/8/2022 10:33 AM	30:00	6.15 pH	70.40 °F	0.17 µS/cm	2.61 mg/L	37.10 NTU	86.2 mV	20.10 ft	150.00 ml/min
9/8/2022 10:38 AM	35:00	6.16 pH	70.40 °F	0.17 µS/cm	2.67 mg/L	35.00 NTU	93.4 mV	20.63 ft	150.00 ml/min
9/8/2022 10:43 AM	40:00	6.17 pH	70.06 °F	0.17 µS/cm	2.65 mg/L	33.30 NTU	88.9 mV	21.23 ft	150.00 ml/min
9/8/2022 10:48 AM	45:00	6.18 pH	69.80 °F	0.17 µS/cm	2.87 mg/L	30.50 NTU	86.6 mV	21.75 ft	150.00 ml/min
9/8/2022 10:53 AM	50:00	6.18 pH	69.56 °F	0.17 µS/cm	3.07 mg/L	30.70 NTU	78.3 mV	22.40 ft	150.00 ml/min
9/8/2022 10:58 AM	55:00	6.19 pH	69.55 °F	0.17 µS/cm	3.16 mg/L	25.30 NTU	80.5 mV	22.65 ft	150.00 ml/min
9/8/2022 11:03 AM	01:00:00	6.19 pH	69.51 °F	0.17 µS/cm	3.20 mg/L	25.20 NTU	72.5 mV	23.00 ft	150.00 ml/min
9/8/2022 11:08 AM	01:05:00	6.20 pH	69.67 °F	0.17 µS/cm	3.29 mg/L	26.10 NTU	73.9 mV	23.40 ft	150.00 ml/min

9/8/2022 11:13 AM	01:10:00	6.20 pH	70.07 °F	0.18 µS/cm	3.29 mg/L	21.30 NTU	66.3 mV	23.75 ft	150.00 ml/min
9/8/2022 11:18 AM	01:15:00	6.20 pH	70.71 °F	0.18 µS/cm	3.24 mg/L	21.50 NTU	68.6 mV	24.01 ft	150.00 ml/min
9/8/2022 11:23 AM	01:20:00	6.21 pH	70.96 °F	0.18 µS/cm	3.33 mg/L	23.00 NTU	66.1 mV	24.35 ft	150.00 ml/min
9/8/2022 11:28 AM	01:25:00	6.22 pH	70.32 °F	0.18 µS/cm	3.26 mg/L	18.60 NTU	60.0 mV	24.63 ft	150.00 ml/min
9/8/2022 11:33 AM	01:30:00	6.23 pH	70.22 °F	0.18 µS/cm	3.21 mg/L	17.90 NTU	59.4 mV	24.95 ft	150.00 ml/min
9/8/2022 11:38 AM	01:35:00	6.23 pH	70.56 °F	0.18 µS/cm	3.19 mg/L	17.00 NTU	54.4 mV	25.25 ft	150.00 ml/min
9/8/2022 11:43 AM	01:40:00	6.24 pH	70.80 °F	0.18 µS/cm	3.15 mg/L	16.90 NTU	53.2 mV	25.45 ft	150.00 ml/min
9/8/2022 11:48 AM	01:45:00	6.25 pH	70.73 °F	0.18 µS/cm	3.08 mg/L	16.00 NTU	48.3 mV	25.64 ft	150.00 ml/min
9/8/2022 11:53 AM	01:50:00	6.27 pH	70.78 °F	0.19 µS/cm	3.05 mg/L	16.30 NTU	46.1 mV	25.90 ft	150.00 ml/min
9/8/2022 11:58 AM	01:55:00	6.28 pH	70.70 °F	0.19 µS/cm	2.97 mg/L	13.90 NTU	42.5 mV	26.05 ft	150.00 ml/min
9/8/2022 12:03 PM	02:00:00	6.28 pH	70.56 °F	0.19 µS/cm	2.93 mg/L	13.50 NTU	40.9 mV	26.20 ft	150.00 ml/min
9/8/2022 12:08 PM	02:05:00	6.28 pH	70.81 °F	0.19 µS/cm	2.86 mg/L	13.20 NTU	38.7 mV	26.32 ft	150.00 ml/min
9/8/2022 12:13 PM	02:10:00	6.27 pH	70.99 °F	0.19 µS/cm	2.80 mg/L	11.70 NTU	38.9 mV	26.45 ft	150.00 ml/min
9/8/2022 12:18 PM	02:15:00	6.28 pH	70.48 °F	0.19 µS/cm	2.72 mg/L	12.00 NTU	35.4 mV	26.60 ft	150.00 ml/min
9/8/2022 12:23 PM	02:20:00	6.28 pH	70.48 °F	0.19 µS/cm	2.58 mg/L	10.70 NTU	33.2 mV	26.70 ft	150.00 ml/min
9/8/2022 12:28 PM	02:25:00	6.28 pH	71.22 °F	0.19 µS/cm	2.56 mg/L	10.00 NTU	30.1 mV	26.85 ft	150.00 ml/min
9/8/2022 12:33 PM	02:30:00	6.28 pH	71.17 °F	0.19 µS/cm	2.45 mg/L	9.56 NTU	30.7 mV	26.85 ft	150.00 ml/min
9/8/2022 12:38 PM	02:35:00	6.29 pH	70.64 °F	0.19 µS/cm	2.41 mg/L	8.71 NTU	29.9 mV	26.93 ft	150.00 ml/min
9/8/2022 12:43 PM	02:40:00	6.30 pH	70.97 °F	0.20 µS/cm	2.29 mg/L	8.97 NTU	28.0 mV	27.03 ft	150.00 ml/min
9/8/2022 12:48 PM	02:45:00	6.30 pH	70.96 °F	0.20 µS/cm	2.24 mg/L	7.46 NTU	26.5 mV	27.10 ft	150.00 ml/min
9/8/2022 12:53 PM	02:50:00	6.31 pH	71.76 °F	0.20 µS/cm	2.18 mg/L	7.26 NTU	24.4 mV	27.16 ft	150.00 ml/min
9/8/2022 12:58 PM	02:55:00	6.31 pH	71.38 °F	0.20 µS/cm	2.12 mg/L	7.54 NTU	25.5 mV	27.24 ft	150.00 ml/min
9/8/2022 1:03 PM	03:00:00	6.31 pH	70.88 °F	0.20 µS/cm	2.08 mg/L	8.46 NTU	25.4 mV	27.30 ft	150.00 ml/min
9/8/2022 1:08 PM	03:05:00	6.31 pH	71.50 °F	0.20 µS/cm	2.01 mg/L	7.87 NTU	24.8 mV	27.38 ft	150.00 ml/min
9/8/2022 1:13 PM	03:10:00	6.32 pH	72.00 °F	0.20 µS/cm	1.89 mg/L	7.67 NTU	23.2 mV	27.40 ft	150.00 ml/min
9/8/2022 1:18 PM	03:15:00	6.31 pH	71.85 °F	0.20 µS/cm	1.83 mg/L	6.44 NTU	22.8 mV	27.40 ft	150.00 ml/min
9/8/2022 1:23 PM	03:20:00	6.32 pH	71.28 °F	0.20 µS/cm	1.73 mg/L	5.76 NTU	21.0 mV	27.45 ft	150.00 ml/min
9/8/2022 1:28 PM	03:25:00	6.32 pH	71.44 °F	0.20 µS/cm	1.70 mg/L	4.39 NTU	20.9 mV	27.45 ft	150.00 ml/min

**Samples**

Sample ID:	Description:
DGWA-53	

# Low-Flow Test Report:

Test Date / Time: 9/7/2022 9:00:52 AM

Project: SCS Plant McDonough

Operator Name: Duane Fulton

<b>Location Name: DGWA-70A</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 52.54 ft</b> <b>Total Depth: 62.54 ft</b> <b>Initial Depth to Water: 43.02 ft</b>	<b>Pump Type: Dedicated Bladder Pump</b> <b>Tubing Type: LDPE</b> <b>Pump Intake From TOC: 57 ft</b> <b>Estimated Total Volume Pumped: 4807.5 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 150 ml/min</b> <b>Final Draw Down: 0.36 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 883533</b>
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## Test Notes:

## Weather Conditions:

Cloudy, 75

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/7/2022 9:00 AM	00:00	6.76 pH	23.69 °C	71.22 µS/cm	7.84 mg/L	1.10 NTU	142.3 mV	43.30 ft	150.00 ml/min
9/7/2022 9:05 AM	05:00	5.62 pH	19.53 °C	68.82 µS/cm	4.78 mg/L	0.16 NTU	142.9 mV	43.35 ft	150.00 ml/min
9/7/2022 9:10 AM	10:00	5.59 pH	18.70 °C	68.96 µS/cm	4.79 mg/L	0.00 NTU	139.4 mV	43.38 ft	150.00 ml/min
9/7/2022 9:15 AM	15:00	5.59 pH	18.57 °C	69.46 µS/cm	4.74 mg/L	0.00 NTU	136.2 mV	43.38 ft	150.00 ml/min
9/7/2022 9:20 AM	20:00	5.60 pH	18.57 °C	69.93 µS/cm	4.66 mg/L	0.00 NTU	134.6 mV	43.40 ft	150.00 ml/min
9/7/2022 9:25 AM	25:00	5.60 pH	19.06 °C	69.76 µS/cm	4.63 mg/L	0.00 NTU	133.7 mV	43.40 ft	150.00 ml/min
9/7/2022 9:27 AM	26:28	5.60 pH	19.15 °C	70.23 µS/cm	4.61 mg/L	0.00 NTU	126.1 mV	43.40 ft	150.00 ml/min
9/7/2022 9:27 AM	27:03	5.60 pH	19.10 °C	69.77 µS/cm	4.61 mg/L	0.00 NTU	145.9 mV	43.38 ft	150.00 ml/min
9/7/2022 9:32 AM	32:03	5.60 pH	18.99 °C	70.03 µS/cm	4.62 mg/L	0.00 NTU	137.2 mV	43.38 ft	150.00 ml/min

## Samples

Sample ID:	Description:
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DGWC-70A

Created using VuSitu from In-Situ, Inc.



# Low-Flow Test Report:

Test Date / Time: 9/7/2022 9:48:54 AM

Project: Plant McDonough

Operator Name: Cole Mayer

<b>Location Name: DGWA-71</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 37.71 ft</b> <b>Total Depth: 47.71 ft</b> <b>Initial Depth to Water: 29.37 ft</b>	<b>Pump Type: Dedicated Bladder</b> <b>Tubing Type: LDPE</b> <b>Pump Intake From TOC: 42 ft</b> <b>Estimated Total Volume Pumped: 8750 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 250 ml/min</b> <b>Final Draw Down: 0.55 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 884187</b>
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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	
9/7/2022 9:48 AM	00:00	5.77 pH	25.20 °C	73.26 µS/cm	7.41 mg/L	1.97 NTU	49.9 mV	29.37 ft	250.00 ml/min
9/7/2022 9:53 AM	05:00	5.66 pH	18.99 °C	76.50 µS/cm	2.61 mg/L	1.85 NTU	18.6 mV	29.91 ft	250.00 ml/min
9/7/2022 9:58 AM	10:00	5.64 pH	18.83 °C	77.16 µS/cm	1.97 mg/L	0.99 NTU	10.0 mV	29.89 ft	250.00 ml/min
9/7/2022 10:03 AM	15:00	5.66 pH	18.84 °C	77.35 µS/cm	1.86 mg/L	0.81 NTU	9.0 mV	29.89 ft	250.00 ml/min
9/7/2022 10:08 AM	20:00	5.68 pH	18.79 °C	77.40 µS/cm	1.88 mg/L	1.83 NTU	9.0 mV	29.90 ft	250.00 ml/min
9/7/2022 10:13 AM	25:00	5.65 pH	18.89 °C	77.37 µS/cm	1.78 mg/L	1.05 NTU	6.4 mV	29.91 ft	250.00 ml/min
9/7/2022 10:18 AM	30:00	5.64 pH	18.85 °C	77.45 µS/cm	1.70 mg/L	0.58 NTU	5.0 mV	29.91 ft	250.00 ml/min
9/7/2022 10:23 AM	35:00	5.65 pH	18.80 °C	77.56 µS/cm	1.66 mg/L	1.43 NTU	4.6 mV	29.92 ft	250.00 ml/min

## Samples

Sample ID:	Description:
DGWA-71	

# Low-Flow Test Report:

Test Date / Time: 9/20/2022 12:46:00 PM

Project: Plant McDonough

Operator Name: Jude Waguespack

<b>Location Name: DGWC-2</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 42.42 ft</b> <b>Total Depth: 52.42 ft</b> <b>Initial Depth to Water: 30.5 ft</b>	<b>Pump Type: dedicated bladder</b> <b>Tubing Type: LDPE</b> <b>Tubing Inner Diameter: 0.175 cm</b> <b>Tubing Length: 42 m</b> <b>Pump Intake From TOC: 47 ft</b> <b>Estimated Total Volume Pumped: 7500 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 250 ml/min</b> <b>Final Draw Down: 0.4 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 728541</b>
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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 %	+/- 2	+/- 1000 %	+/- 0.3	
9/20/2022 12:46 PM	00:00	6.52 pH	26.79 °C	335.26 µS/cm	5.82 mg/L	5.23 NTU	111.9 mV	30.50 ft	250.00 ml/min
9/20/2022 12:51 PM	05:00	6.00 pH	21.38 °C	334.93 µS/cm	1.31 mg/L	1.13 NTU	121.8 mV	30.90 ft	250.00 ml/min
9/20/2022 12:56 PM	10:00	6.00 pH	21.13 °C	337.17 µS/cm	0.98 mg/L	0.95 NTU	121.6 mV	30.90 ft	250.00 ml/min
9/20/2022 1:01 PM	15:00	6.00 pH	21.02 °C	333.42 µS/cm	0.80 mg/L	1.30 NTU	121.9 mV	30.90 ft	250.00 ml/min
9/20/2022 1:06 PM	20:00	6.00 pH	20.89 °C	333.95 µS/cm	0.58 mg/L	2.23 NTU	115.9 mV	30.90 ft	250.00 ml/min
9/20/2022 1:11 PM	25:00	6.00 pH	20.94 °C	332.51 µS/cm	0.54 mg/L	1.28 NTU	116.0 mV	30.90 ft	250.00 ml/min
9/20/2022 1:16 PM	30:00	5.98 pH	21.06 °C	334.47 µS/cm	0.42 mg/L	1.16 NTU	122.4 mV	30.90 ft	250.00 ml/min

## Samples

Sample ID:	Description:
DGWC-2	

# Low-Flow Test Report:

Test Date / Time: 9/19/2022 1:01:02 PM

Project: Plant McDonough

Operator Name: Jude Waguespack

<b>Location Name: DGWC-4</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 36.71 ft</b> <b>Total Depth: 46.71 ft</b> <b>Initial Depth to Water: 25.85 ft</b>	<b>Pump Type: Dedicated bladder</b> <b>Tubing Type: LDPE</b> <b>Tubing Inner Diameter: 0.175 cm</b> <b>Tubing Length: 42 m</b> <b>Pump Intake From TOC: 41 ft</b> <b>Estimated Total Volume Pumped: 6250 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 250 ml/min</b> <b>Final Draw Down: 0.35 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 728541</b>
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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 %	+/- 2	+/- 1000 %	+/- 0.3	
9/19/2022 1:01 PM	00:00	3.90 pH	31.28 °C	0.31 µS/cm	7.18 mg/L	21.70 NTU	192.2 mV	25.85 ft	250.00 ml/min
9/19/2022 1:06 PM	05:00	5.83 pH	21.20 °C	1,752.6 µS/cm	1.04 mg/L	2.71 NTU	170.3 mV	26.20 ft	250.00 ml/min
9/19/2022 1:11 PM	10:00	5.77 pH	20.14 °C	1,813.4 µS/cm	0.78 mg/L	1.29 NTU	187.2 mV	26.20 ft	250.00 ml/min
9/19/2022 1:16 PM	15:00	5.77 pH	19.99 °C	1,832.2 µS/cm	0.68 mg/L	0.87 NTU	164.7 mV	26.20 ft	250.00 ml/min
9/19/2022 1:21 PM	20:00	5.76 pH	19.98 °C	1,826.7 µS/cm	0.53 mg/L	0.79 NTU	179.9 mV	26.20 ft	250.00 ml/min
9/19/2022 1:26 PM	25:00	5.76 pH	19.90 °C	1,838.2 µS/cm	0.41 mg/L	0.92 NTU	160.3 mV	26.20 ft	250.00 ml/min

## Samples

Sample ID:	Description:
DGWC-4	

# Low-Flow Test Report:

Test Date / Time: 9/14/2022 12:55:26 PM

Project: Plant McDonough

Operator Name: Jude Waguespack

<b>Location Name: DGWC-5</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 23.23 ft</b> <b>Total Depth: 33.23 ft</b> <b>Initial Depth to Water: 11.4 ft</b>	<b>Pump Type: dedicated bladder</b> <b>Tubing Type: LDPE</b> <b>Tubing Inner Diameter: 0.175 cm</b> <b>Tubing Length: 42 m</b> <b>Pump Intake From TOC: 28 ft</b> <b>Estimated Total Volume Pumped: 7500 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 250 ml/min</b> <b>Final Draw Down: 0.26 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 728541</b>
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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 %	+/- 2	+/- 1000 %	+/- 0.3	
9/14/2022 12:55 PM	00:00	4.58 pH	23.52 °C	868.64 µS/cm	2.68 mg/L	1.87 NTU	246.9 mV	11.40 ft	250.00 ml/min
9/14/2022 1:00 PM	05:00	4.51 pH	19.88 °C	832.59 µS/cm	1.39 mg/L	1.71 NTU	413.9 mV	11.70 ft	250.00 ml/min
9/14/2022 1:05 PM	10:00	4.71 pH	19.64 °C	985.46 µS/cm	0.92 mg/L	2.40 NTU	559.4 mV	11.66 ft	250.00 ml/min
9/14/2022 1:10 PM	15:00	4.73 pH	19.51 °C	1,005.0 µS/cm	0.73 mg/L	2.71 NTU	509.2 mV	11.66 ft	250.00 ml/min
9/14/2022 1:15 PM	20:00	4.74 pH	19.60 °C	1,011.9 µS/cm	0.61 mg/L	1.77 NTU	568.5 mV	11.66 ft	250.00 ml/min
9/14/2022 1:20 PM	25:00	4.74 pH	19.64 °C	1,015.6 µS/cm	0.53 mg/L	2.13 NTU	569.6 mV	11.66 ft	250.00 ml/min
9/14/2022 1:25 PM	30:00	4.75 pH	19.64 °C	1,020.3 µS/cm	0.50 mg/L	2.03 NTU	505.7 mV	11.66 ft	250.00 ml/min

## Samples

Sample ID:	Description:
DGWC-5	

# Low-Flow Test Report:

Test Date / Time: 9/15/2022 12:53:56 PM

Project: Plant McDonough

Operator Name: Jude Waguespack

<b>Location Name: DGWC-8</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 41.33 ft</b> <b>Total Depth: 51.33 ft</b> <b>Initial Depth to Water: 39.5 ft</b>	<b>Pump Type: Dedicated Bladder</b> <b>Tubing Type: LDPE</b> <b>Tubing Inner Diameter: 0.175 cm</b> <b>Tubing Length: 42 m</b> <b>Pump Intake From TOC: 46 ft</b> <b>Estimated Total Volume Pumped: 6250 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 250 ml/min</b> <b>Final Draw Down: 0.15 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 728541</b>
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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 %	+/- 2	+/- 1000 %	+/- 0.3	
9/15/2022 12:53 PM	00:00	5.24 pH	21.77 °C	367.49 µS/cm	2.57 mg/L	0.31 NTU	119.8 mV	39.50 ft	250.00 ml/min
9/15/2022 12:58 PM	05:00	5.22 pH	20.11 °C	364.42 µS/cm	1.56 mg/L	0.38 NTU	125.7 mV	39.65 ft	250.00 ml/min
9/15/2022 1:03 PM	10:00	5.19 pH	19.82 °C	363.40 µS/cm	0.85 mg/L	0.35 NTU	143.2 mV	39.65 ft	250.00 ml/min
9/15/2022 1:08 PM	15:00	5.19 pH	19.68 °C	365.73 µS/cm	0.64 mg/L	0.37 NTU	146.5 mV	39.65 ft	250.00 ml/min
9/15/2022 1:13 PM	20:00	5.19 pH	19.73 °C	365.29 µS/cm	0.58 mg/L	0.33 NTU	132.4 mV	39.65 ft	250.00 ml/min
9/15/2022 1:18 PM	25:00	5.20 pH	19.73 °C	367.23 µS/cm	0.54 mg/L	0.32 NTU	148.5 mV	39.65 ft	250.00 ml/min

## Samples

Sample ID:	Description:
DGWC-8	

# Low-Flow Test Report:

Test Date / Time: 9/19/2022 10:39:01 AM

Project: Plant McDonough

Operator Name: Jude Waguespack

<b>Location Name: DGWC-9</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 23.73 ft</b> <b>Total Depth: 33.73 ft</b> <b>Initial Depth to Water: 28.53 ft</b>	<b>Pump Type: bladder</b> <b>Tubing Type: LDPE</b> <b>Tubing Inner Diameter: 0.175 cm</b> <b>Tubing Length: 42 m</b> <b>Pump Intake From TOC: 32 ft</b> <b>Estimated Total Volume Pumped: 18826.666 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 2.72 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 728541</b>
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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 %	+/- 2	+/- 1000 %	+/- 0.3	
9/19/2022 10:39 AM	00:00	3.92 pH	22.98 °C	657.17 µS/cm	7.19 mg/L	7.30 NTU	163.4 mV	28.53 ft	450.00 ml/min
9/19/2022 10:44 AM	05:00	3.89 pH	19.17 °C	657.86 µS/cm	4.64 mg/L	53.00 NTU	168.6 mV	29.15 ft	450.00 ml/min
9/19/2022 10:49 AM	10:00	3.90 pH	18.88 °C	655.40 µS/cm	4.00 mg/L	64.30 NTU	191.5 mV	29.85 ft	450.00 ml/min
9/19/2022 10:54 AM	15:00	3.89 pH	18.79 °C	650.72 µS/cm	4.39 mg/L	29.70 NTU	197.6 mV	30.65 ft	450.00 ml/min
9/19/2022 10:59 AM	20:00	3.91 pH	18.79 °C	649.22 µS/cm	4.53 mg/L	14.70 NTU	177.6 mV	31.25 ft	200.00 ml/min
9/19/2022 11:04 AM	25:00	3.92 pH	19.11 °C	657.42 µS/cm	3.72 mg/L	9.61 NTU	178.6 mV	31.16 ft	200.00 ml/min
9/19/2022 11:09 AM	30:00	3.94 pH	19.17 °C	657.58 µS/cm	3.32 mg/L	3.96 NTU	204.6 mV	31.10 ft	200.00 ml/min
9/19/2022 11:14 AM	35:00	3.95 pH	19.15 °C	657.29 µS/cm	3.08 mg/L	2.74 NTU	208.3 mV	31.10 ft	200.00 ml/min
9/19/2022 11:19 AM	40:00	3.96 pH	19.05 °C	657.30 µS/cm	2.96 mg/L	2.50 NTU	211.8 mV	31.10 ft	200.00 ml/min
9/19/2022 11:24 AM	45:00	3.96 pH	19.10 °C	656.18 µS/cm	2.77 mg/L	1.42 NTU	185.4 mV	31.10 ft	200.00 ml/min
9/19/2022 11:29 AM	50:00	3.96 pH	19.11 °C	656.30 µS/cm	2.61 mg/L	1.49 NTU	186.1 mV	31.10 ft	200.00 ml/min
9/19/2022 11:34 AM	55:00	3.97 pH	19.17 °C	657.90 µS/cm	2.45 mg/L	1.07 NTU	217.8 mV	31.10 ft	200.00 ml/min
9/19/2022 11:39 AM	01:00:00	3.98 pH	19.24 °C	654.68 µS/cm	2.34 mg/L	0.87 NTU	186.6 mV	31.25 ft	200.00 ml/min
9/19/2022 11:43 AM	01:04:08	3.98 pH	19.15 °C	656.62 µS/cm	2.24 mg/L	0.87 NTU	187.3 mV	31.25 ft	200.00 ml/min

9/19/2022 11:48 AM	01:09:08	3.98 pH	19.28 °C	656.62 µS/cm	2.15 mg/L	0.87 NTU	186.9 mV	31.25 ft	200.00 ml/min
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### Samples

Sample ID:	Description:
DGWC-9	

# Low-Flow Test Report:

Test Date / Time: 9/15/2022 9:57:36 AM

Project: SCS Plant McDonough

Operator Name: Duane Fulton

<b>Location Name: DGWC-10</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 37.8 ft</b> <b>Total Depth: 47.8 ft</b> <b>Initial Depth to Water: 31.98 ft</b>	<b>Pump Type: Alexis Peri Pump</b> <b>Tubing Type: LDPE</b> <b>Pump Intake From TOC: 39 ft</b> <b>Estimated Total Volume Pumped: 3560 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 153 ml/min</b> <b>Final Draw Down: 0.28 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 883533</b>
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## Test Notes:

## Weather Conditions:

Clear, 76

## 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	
9/15/2022 9:57 AM	00:00	5.80 pH	23.66 °C	639.01 µS/cm	7.78 mg/L	0.59 NTU	173.6 mV	32.14 ft	100.00 ml/min
9/15/2022 10:02 AM	05:00	4.80 pH	20.44 °C	547.10 µS/cm	5.56 mg/L	0.86 NTU	158.1 mV	32.22 ft	153.00 ml/min
9/15/2022 10:07 AM	10:00	4.86 pH	19.81 °C	537.05 µS/cm	5.37 mg/L	0.89 NTU	195.9 mV	32.25 ft	153.00 ml/min
9/15/2022 10:12 AM	15:00	4.87 pH	19.73 °C	538.50 µS/cm	5.22 mg/L	0.76 NTU	135.9 mV	32.26 ft	153.00 ml/min
9/15/2022 10:17 AM	20:00	4.87 pH	19.73 °C	540.03 µS/cm	5.11 mg/L	0.76 NTU	131.1 mV	32.28 ft	153.00 ml/min
9/15/2022 10:22 AM	25:00	4.87 pH	19.72 °C	540.45 µS/cm	5.06 mg/L	0.66 NTU	129.9 mV	32.26 ft	153.00 ml/min

## Samples

Sample ID:	Description:
DGWC-10	



# Low-Flow Test Report:

Test Date / Time: 9/15/2022 1:12:02 PM

Project: SCS Plant McDonough

Operator Name: Duane Fulton

<b>Location Name: DGWC-11</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 41.72 ft</b> <b>Total Depth: 51.72 ft</b> <b>Initial Depth to Water: 16.43 ft</b>	<b>Pump Type: QED Bladder Pump</b> <b>Tubing Type: LDPE</b> <b>Pump Intake From TOC: 47 ft</b> <b>Estimated Total Volume Pumped: 3540 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 119 ml/min</b> <b>Final Draw Down: 0.43 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 883533</b>
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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	
9/15/2022 1:12 PM	00:00	8.45 pH	29.29 °C	673.02 µS/cm	4.82 mg/L	1.53 NTU	47.3 mV	16.75 ft	116.00 ml/min
9/15/2022 1:17 PM	05:00	5.71 pH	22.20 °C	658.35 µS/cm	0.90 mg/L	1.23 NTU	75.0 mV	16.83 ft	116.00 ml/min
9/15/2022 1:22 PM	10:00	5.55 pH	21.75 °C	671.83 µS/cm	0.74 mg/L	1.52 NTU	113.0 mV	16.84 ft	119.00 ml/min
9/15/2022 1:27 PM	15:00	5.54 pH	21.73 °C	670.93 µS/cm	0.64 mg/L	1.03 NTU	117.9 mV	16.84 ft	119.00 ml/min
9/15/2022 1:32 PM	20:00	5.52 pH	21.37 °C	673.36 µS/cm	0.50 mg/L	0.51 NTU	116.4 mV	16.84 ft	119.00 ml/min
9/15/2022 1:37 PM	25:00	5.52 pH	21.39 °C	672.23 µS/cm	0.38 mg/L	1.01 NTU	81.6 mV	16.86 ft	119.00 ml/min
9/15/2022 1:42 PM	30:00	5.52 pH	21.52 °C	670.87 µS/cm	0.33 mg/L	1.05 NTU	74.3 mV	16.86 ft	119.00 ml/min

## Samples

Sample ID:	Description:
DGWC-11	

# Low-Flow Test Report:

Test Date / Time: 9/15/2022 2:27:38 PM

Project: SCS Plant McDonough

Operator Name: Duane Fulton

<b>Location Name: DGWC-12</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 18.24 ft</b> <b>Total Depth: 28.24 ft</b> <b>Initial Depth to Water: 10.65 ft</b>	<b>Pump Type: QED Bladder Pump</b> <b>Tubing Type: LDPE</b> <b>Pump Intake From TOC: 23.24 ft</b> <b>Estimated Total Volume Pumped: 11835 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 233 ml/min</b> <b>Final Draw Down: 0.43 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 883533</b>
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## Test Notes:

## Weather Conditions:

Cloudy, 83

## 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	
9/15/2022 2:27 PM	00:00	6.02 pH	27.76 °C	396.93 µS/cm	4.67 mg/L	900.00 NTU	63.4 mV	10.65 ft	300.00 ml/min
9/15/2022 2:32 PM	05:00	5.75 pH	20.02 °C	592.82 µS/cm	0.94 mg/L	167.00 NTU	60.2 mV	11.05 ft	223.00 ml/min
9/15/2022 2:37 PM	10:00	5.88 pH	19.86 °C	566.21 µS/cm	0.24 mg/L	56.20 NTU	28.9 mV	11.05 ft	223.00 ml/min
9/15/2022 2:42 PM	15:00	5.89 pH	19.81 °C	555.19 µS/cm	0.12 mg/L	38.10 NTU	26.3 mV	11.08 ft	223.00 ml/min
9/15/2022 2:47 PM	20:00	5.87 pH	19.85 °C	545.31 µS/cm	0.10 mg/L	22.70 NTU	25.6 mV	11.05 ft	233.00 ml/min
9/15/2022 2:52 PM	25:00	5.85 pH	19.68 °C	537.43 µS/cm	0.08 mg/L	13.40 NTU	29.5 mV	11.08 ft	233.00 ml/min
9/15/2022 2:57 PM	30:00	5.83 pH	19.73 °C	529.15 µS/cm	0.07 mg/L	9.65 NTU	29.6 mV	11.08 ft	233.00 ml/min
9/15/2022 3:02 PM	35:00	5.80 pH	19.65 °C	524.31 µS/cm	0.07 mg/L	7.70 NTU	36.2 mV	11.05 ft	233.00 ml/min
9/15/2022 3:07 PM	40:00	5.78 pH	19.77 °C	520.22 µS/cm	0.07 mg/L	5.38 NTU	39.1 mV	11.08 ft	233.00 ml/min
9/15/2022 3:12 PM	45:00	5.76 pH	19.72 °C	514.27 µS/cm	0.06 mg/L	4.15 NTU	41.7 mV	11.05 ft	233.00 ml/min
9/15/2022 3:17 PM	50:00	5.75 pH	19.50 °C	513.99 µS/cm	0.06 mg/L	3.18 NTU	37.9 mV	11.08 ft	233.00 ml/min

## Samples

Sample ID:	Description:
DGWC-12	

Created using VuSitu from In-Situ, Inc.

# Low-Flow Test Report:

Test Date / Time: 9/15/2022 9:15:44 AM

Project: Plant McDonough (34)

Operator Name: Cole Mayer

<b>Location Name: DGWC-13</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 36.7 ft</b> <b>Total Depth: 46.7 ft</b> <b>Initial Depth to Water: 34.08 ft</b>	<b>Pump Type: dedicated</b> <b>Tubing Type: LDPE</b> <b>Pump Intake From TOC: 41 ft</b> <b>Estimated Total Volume Pumped: 4000 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.26 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 884187</b>
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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	
9/15/2022 9:15 AM	00:00	7.00 pH	22.07 °C	407.66 µS/cm	7.43 mg/L	0.45 NTU	122.6 mV	34.27 ft	200.00 ml/min
9/15/2022 9:20 AM	05:00	5.63 pH	20.21 °C	396.18 µS/cm	4.48 mg/L	0.60 NTU	117.6 mV	34.28 ft	200.00 ml/min
9/15/2022 9:25 AM	10:00	5.59 pH	20.12 °C	395.08 µS/cm	4.11 mg/L	0.64 NTU	120.1 mV	34.32 ft	200.00 ml/min
9/15/2022 9:30 AM	15:00	5.57 pH	20.18 °C	394.80 µS/cm	3.97 mg/L	0.48 NTU	117.8 mV	34.32 ft	200.00 ml/min
9/15/2022 9:35 AM	20:00	5.56 pH	20.22 °C	393.96 µS/cm	3.92 mg/L	0.55 NTU	120.2 mV	34.34 ft	200.00 ml/min

## Samples

Sample ID:	Description:
DGWC-13	

# Low-Flow Test Report:

Test Date / Time: 9/13/2022 3:56:05 PM

Project: Plant McDonough

Operator Name: M. Mann

<b>Location Name: DGWC-14</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 28 ft</b> <b>Total Depth: 37.95 ft</b> <b>Initial Depth to Water: 22.11 ft</b>	<b>Pump Type: dedicated bladder</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 29.74 ft</b> <b>Estimated Total Volume Pumped: 3250 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 190 ml/min</b> <b>Final Draw Down: 0.38 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 851413</b>
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## Test Notes:

## Weather Conditions:

Sunny

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/13/2022 3:56 PM	00:00	5.94 pH	23.25 °C	163.38 µS/cm	4.97 mg/L	2.99 NTU	81.9 mV	22.11 ft	270.00 ml/min
9/13/2022 4:01 PM	05:00	5.74 pH	20.70 °C	166.29 µS/cm	4.86 mg/L	0.77 NTU	88.2 mV	22.59 ft	190.00 ml/min
9/13/2022 4:06 PM	10:00	5.72 pH	21.35 °C	164.37 µS/cm	4.74 mg/L	0.35 NTU	93.3 mV	22.52 ft	190.00 ml/min
9/13/2022 4:11 PM	15:00	5.71 pH	21.00 °C	163.87 µS/cm	4.70 mg/L	0.61 NTU	99.2 mV	22.49 ft	190.00 ml/min

## Samples

Sample ID:	Description:
DGWC-14	

# Low-Flow Test Report:

Test Date / Time: 9/13/2022 3:22:17 PM

Project: SCS Plant McDonough

Operator Name: Duane Fulton

<b>Location Name: DGWC-15</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 60.83 ft</b> <b>Total Depth: 70.83 ft</b> <b>Initial Depth to Water: 41 ft</b>	<b>Pump Type: Alexis Peri Pump</b> <b>Tubing Type: LDPE</b> <b>Pump Intake From TOC: 65 ft</b> <b>Estimated Total Volume Pumped: 3500 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 100 ml/min</b> <b>Final Draw Down: 0.7 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 883533</b>
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## Test Notes:

## Weather Conditions:

Clear, 86

## 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	
9/13/2022 3:22 PM	00:00	7.98 pH	31.39 °C	415.54 µS/cm	4.49 mg/L	1.10 NTU	96.9 mV	41.42 ft	100.00 ml/min
9/13/2022 3:27 PM	05:00	5.88 pH	23.67 °C	429.46 µS/cm	0.89 mg/L	1.75 NTU	74.9 mV	41.70 ft	100.00 ml/min
9/13/2022 3:32 PM	10:00	5.83 pH	23.85 °C	432.49 µS/cm	0.90 mg/L	0.93 NTU	120.3 mV	41.70 ft	100.00 ml/min
9/13/2022 3:37 PM	15:00	5.82 pH	23.93 °C	432.65 µS/cm	0.87 mg/L	0.92 NTU	128.9 mV	41.70 ft	100.00 ml/min
9/13/2022 3:42 PM	20:00	5.81 pH	23.88 °C	432.00 µS/cm	0.68 mg/L	0.83 NTU	129.9 mV	41.70 ft	100.00 ml/min
9/13/2022 3:47 PM	25:00	5.82 pH	23.85 °C	431.62 µS/cm	0.59 mg/L	0.46 NTU	122.5 mV	41.70 ft	100.00 ml/min
9/13/2022 3:52 PM	30:00	5.82 pH	23.82 °C	432.42 µS/cm	0.52 mg/L	0.45 NTU	117.3 mV	41.70 ft	100.00 ml/min
9/13/2022 3:57 PM	35:00	5.82 pH	23.74 °C	432.71 µS/cm	0.49 mg/L	0.54 NTU	115.2 mV	41.70 ft	100.00 ml/min

## Samples

Sample ID:	Description:
DGWC-15	

# Low-Flow Test Report:

Test Date / Time: 9/14/2022 1:55:58 PM

Project: Plant McDonough (33)

Operator Name: Cole Mayer

<b>Location Name: DGWC-17</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 37.95 ft</b> <b>Total Depth: 47.95 ft</b> <b>Initial Depth to Water: 36.76 ft</b>	<b>Pump Type: dedicated</b> <b>Tubing Type: LDPE</b> <b>Pump Intake From TOC: 43 ft</b> <b>Estimated Total Volume Pumped: 4500 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 100 ml/min</b> <b>Final Draw Down: 0.33 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 884187</b>
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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	
9/14/2022 1:55 PM	00:00	5.88 pH	30.82 °C	0.57 µS/cm	6.38 mg/L	1.31 NTU	103.4 mV	36.99 ft	100.00 ml/min
9/14/2022 2:00 PM	05:00	5.17 pH	21.25 °C	0.62 µS/cm	2.40 mg/L	1.17 NTU	102.4 mV	37.02 ft	100.00 ml/min
9/14/2022 2:05 PM	10:00	5.12 pH	20.76 °C	0.63 µS/cm	1.03 mg/L	2.40 NTU	102.7 mV	37.02 ft	100.00 ml/min
9/14/2022 2:10 PM	15:00	5.11 pH	20.60 °C	0.64 µS/cm	0.76 mg/L	0.99 NTU	102.4 mV	37.03 ft	100.00 ml/min
9/14/2022 2:15 PM	20:00	5.10 pH	20.89 °C	0.64 µS/cm	0.75 mg/L	0.77 NTU	102.4 mV	37.03 ft	100.00 ml/min
9/14/2022 2:20 PM	25:00	5.09 pH	20.76 °C	0.63 µS/cm	0.73 mg/L	0.66 NTU	103.0 mV	37.06 ft	100.00 ml/min
9/14/2022 2:25 PM	30:00	5.09 pH	20.76 °C	0.63 µS/cm	0.55 mg/L	0.73 NTU	103.4 mV	37.10 ft	100.00 ml/min
9/14/2022 2:30 PM	35:00	5.09 pH	20.84 °C	0.63 µS/cm	0.64 mg/L	0.66 NTU	102.2 mV	37.08 ft	100.00 ml/min
9/14/2022 2:35 PM	40:00	5.08 pH	20.85 °C	0.63 µS/cm	0.53 mg/L	0.59 NTU	102.3 mV	37.06 ft	100.00 ml/min
9/14/2022 2:40 PM	45:00	5.08 pH	20.89 °C	0.63 µS/cm	0.51 mg/L	0.53 NTU	102.4 mV	37.09 ft	100.00 ml/min

## Samples

Sample ID:	Description:
DGWC-17	
DUP-5	

# Low-Flow Test Report:

Test Date / Time: 9/14/2022 11:25:36 AM

Project: Plant McDonough (32)

Operator Name: Cole Mayer

<b>Location Name: DGWC-19</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 33.23 ft</b> <b>Total Depth: 43.23 ft</b> <b>Initial Depth to Water: 26.33 ft</b>	<b>Pump Type: dedicated</b> <b>Tubing Type: LDPE</b> <b>Pump Intake From TOC: 38.23 ft</b> <b>Estimated Total Volume Pumped: 3500 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 100 ml/min</b> <b>Final Draw Down: 0.24 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 884187</b>
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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	
9/14/2022 11:25 AM	00:00	5.71 pH	32.26 °C	0.76 µS/cm	5.95 mg/L	1.38 NTU	103.7 mV	26.50 ft	100.00 ml/min
9/14/2022 11:30 AM	05:00	4.68 pH	21.49 °C	0.79 µS/cm	0.97 mg/L	6.51 NTU	107.4 mV	26.53 ft	100.00 ml/min
9/14/2022 11:35 AM	10:00	4.74 pH	21.16 °C	0.81 µS/cm	0.66 mg/L	2.77 NTU	110.9 mV	26.60 ft	100.00 ml/min
9/14/2022 11:40 AM	15:00	4.77 pH	20.97 °C	0.81 µS/cm	0.40 mg/L	2.84 NTU	112.5 mV	26.56 ft	100.00 ml/min
9/14/2022 11:45 AM	20:00	4.79 pH	20.90 °C	0.81 µS/cm	0.26 mg/L	1.94 NTU	113.5 mV	26.56 ft	100.00 ml/min
9/14/2022 11:50 AM	25:00	4.80 pH	21.15 °C	0.82 µS/cm	0.21 mg/L	1.66 NTU	115.6 mV	26.57 ft	100.00 ml/min
9/14/2022 11:55 AM	30:00	4.81 pH	21.06 °C	0.82 µS/cm	0.19 mg/L	1.35 NTU	117.0 mV	26.59 ft	100.00 ml/min
9/14/2022 12:00 PM	35:00	4.81 pH	20.97 °C	0.82 µS/cm	0.16 mg/L	1.47 NTU	120.6 mV	26.57 ft	100.00 ml/min

## Samples

Sample ID:	Description:
DGWC-19	Extra rad



# Low-Flow Test Report:

Test Date / Time: 9/15/2022 11:20:51 AM

Project: Plant McDonough (35)

Operator Name: Cole Mayer

<b>Location Name: DGWC-20</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 33.4 ft</b> <b>Total Depth: 43.4 ft</b> <b>Initial Depth to Water: 24.38 ft</b>	<b>Pump Type: peristaltic</b> <b>Tubing Type: LDPE</b> <b>Pump Intake From TOC: 38 ft</b> <b>Estimated Total Volume Pumped: 3500 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 150 ml/min</b> <b>Final Draw Down: 0.94 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 884187</b>
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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	
9/15/2022 11:20 AM	00:00	4.84 pH	29.16 °C	834.96 µS/cm	3.31 mg/L	0.67 NTU	124.9 mV	24.76 ft	100.00 ml/min
9/15/2022 11:25 AM	05:00	4.62 pH	22.68 °C	884.89 µS/cm	0.20 mg/L	1.42 NTU	124.4 mV	25.05 ft	150.00 ml/min
9/15/2022 11:30 AM	10:00	4.63 pH	21.80 °C	893.29 µS/cm	0.12 mg/L	1.05 NTU	124.4 mV	25.20 ft	150.00 ml/min
9/15/2022 11:35 AM	15:00	4.63 pH	21.58 °C	898.45 µS/cm	0.12 mg/L	1.19 NTU	123.2 mV	25.28 ft	150.00 ml/min
9/15/2022 11:40 AM	20:00	4.62 pH	21.78 °C	898.84 µS/cm	0.08 mg/L	0.89 NTU	124.3 mV	25.32 ft	150.00 ml/min
9/15/2022 11:45 AM	25:00	4.58 pH	21.69 °C	913.17 µS/cm	0.08 mg/L	1.00 NTU	126.0 mV	25.32 ft	150.00 ml/min

## Samples

Sample ID:	Description:
DGWC-20	
EB-5	

# Low-Flow Test Report:

Test Date / Time: 9/15/2022 3:50:47 PM

Project: Plant McDonough (37)

Operator Name: Cole Mayer

<b>Location Name: DGWC-21</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 62.55 ft</b> <b>Total Depth: 72.55 ft</b> <b>Initial Depth to Water: 18.59 ft</b>	<b>Pump Type: peristaltic</b> <b>Tubing Type: LDPE</b> <b>Pump Intake From TOC: 67 ft</b> <b>Estimated Total Volume Pumped: 3750 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.3 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 884187</b>
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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	
9/15/2022 3:50 PM	00:00	6.20 pH	31.13 °C	486.59 µS/cm	5.36 mg/L	1.79 NTU	119.6 mV	18.79 ft	150.00 ml/min
9/15/2022 3:55 PM	05:00	5.72 pH	22.36 °C	654.01 µS/cm	0.33 mg/L	0.89 NTU	123.9 mV	18.84 ft	200.00 ml/min
9/15/2022 4:00 PM	10:00	5.70 pH	22.36 °C	657.22 µS/cm	0.15 mg/L	1.13 NTU	124.5 mV	18.87 ft	200.00 ml/min
9/15/2022 4:05 PM	15:00	5.70 pH	22.44 °C	652.17 µS/cm	0.10 mg/L	1.35 NTU	124.2 mV	18.89 ft	200.00 ml/min
9/15/2022 4:10 PM	20:00	5.69 pH	22.46 °C	651.46 µS/cm	0.08 mg/L	0.84 NTU	124.8 mV	18.89 ft	200.00 ml/min

## Samples

Sample ID:	Description:
DGWC-21	

# Low-Flow Test Report:

Test Date / Time: 9/16/2022 11:41:25 AM

Project: Plant McDonough

Operator Name: Jude Waguespack

<b>Location Name: DGWC-22</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 53.45 ft</b> <b>Total Depth: 63.45 ft</b> <b>Initial Depth to Water: 22.8 ft</b>	<b>Pump Type: bladder</b> <b>Tubing Type: LDPE</b> <b>Tubing Inner Diameter: 0.175 cm</b> <b>Tubing Length: 42 m</b> <b>Pump Intake From TOC: 58 ft</b> <b>Estimated Total Volume Pumped: 5000 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 250 ml/min</b> <b>Final Draw Down: 0.15 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 728541</b>
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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 %	+/- 2	+/- 1000 %	+/- 0.3	
9/16/2022 11:41 AM	00:00	5.94 pH	25.65 °C	342.32 µS/cm	6.69 mg/L	2.06 NTU	111.1 mV	22.80 ft	250.00 ml/min
9/16/2022 11:46 AM	05:00	5.68 pH	21.03 °C	652.14 µS/cm	0.75 mg/L	1.09 NTU	79.9 mV	22.95 ft	250.00 ml/min
9/16/2022 11:51 AM	10:00	5.63 pH	21.06 °C	667.71 µS/cm	0.45 mg/L	1.48 NTU	80.7 mV	22.95 ft	250.00 ml/min
9/16/2022 11:56 AM	15:00	5.62 pH	20.92 °C	666.47 µS/cm	0.37 mg/L	0.65 NTU	80.7 mV	22.95 ft	250.00 ml/min
9/16/2022 12:01 PM	20:00	5.62 pH	21.29 °C	670.53 µS/cm	0.32 mg/L	0.71 NTU	83.5 mV	22.95 ft	250.00 ml/min

## Samples

Sample ID:	Description:
DGWC-22	

# Low-Flow Test Report:

Test Date / Time: 9/20/2022 9:47:03 AM

Project: Plant McDonough

Operator Name: Jude Waguespack

<b>Location Name: DGWC-23</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 53.26 ft</b> <b>Total Depth: 63.26 ft</b> <b>Initial Depth to Water: 23.3 ft</b>	<b>Pump Type: dedicated bladder</b> <b>Tubing Type: LDPE</b> <b>Tubing Inner Diameter: 0.175 cm</b> <b>Tubing Length: 42 m</b> <b>Pump Intake From TOC: 58 ft</b> <b>Estimated Total Volume Pumped: 13750 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 250 ml/min</b> <b>Final Draw Down: 2.92 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 728541</b>
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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 %	+/- 2	+/- 1000 %	+/- 0.3	
9/20/2022 9:47 AM	00:00	6.58 pH	23.26 °C	649.47 µS/cm	6.41 mg/L	0.92 NTU	117.5 mV	23.30 ft	250.00 ml/min
9/20/2022 9:52 AM	05:00	5.93 pH	19.44 °C	740.01 µS/cm	0.96 mg/L	1.90 NTU	117.7 mV	23.70 ft	250.00 ml/min
9/20/2022 9:57 AM	10:00	5.98 pH	19.24 °C	721.98 µS/cm	0.90 mg/L	1.78 NTU	132.8 mV	24.20 ft	250.00 ml/min
9/20/2022 10:02 AM	15:00	6.08 pH	19.15 °C	719.23 µS/cm	1.85 mg/L	1.74 NTU	136.1 mV	25.55 ft	250.00 ml/min
9/20/2022 10:07 AM	20:00	6.08 pH	19.12 °C	721.09 µS/cm	1.79 mg/L	1.46 NTU	134.5 mV	26.00 ft	250.00 ml/min
9/20/2022 10:12 AM	25:00	6.06 pH	19.19 °C	721.35 µS/cm	1.54 mg/L	0.98 NTU	125.9 mV	26.11 ft	250.00 ml/min
9/20/2022 10:17 AM	30:00	6.04 pH	19.15 °C	726.19 µS/cm	1.31 mg/L	0.73 NTU	129.3 mV	26.22 ft	250.00 ml/min
9/20/2022 10:22 AM	35:00	6.02 pH	19.15 °C	725.79 µS/cm	1.11 mg/L	0.76 NTU	127.4 mV	26.22 ft	250.00 ml/min
9/20/2022 10:27 AM	40:00	6.02 pH	19.28 °C	726.58 µS/cm	0.96 mg/L	0.83 NTU	125.6 mV	26.22 ft	250.00 ml/min
9/20/2022 10:32 AM	45:00	6.01 pH	19.32 °C	727.95 µS/cm	0.84 mg/L	0.84 NTU	124.2 mV	26.22 ft	250.00 ml/min
9/20/2022 10:37 AM	50:00	6.01 pH	19.28 °C	725.27 µS/cm	0.74 mg/L	1.08 NTU	118.8 mV	26.22 ft	250.00 ml/min
9/20/2022 10:42 AM	55:00	6.00 pH	19.32 °C	728.04 µS/cm	0.64 mg/L	0.93 NTU	122.1 mV	26.22 ft	250.00 ml/min

## Samples

Sample ID:	Description:
DGWC-23	

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# Low-Flow Test Report:

Test Date / Time: 9/13/2022 9:35:27 AM

Project: Plant McDonough (27)

Operator Name: Cole Mayer

<b>Location Name: DGWC-42</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 42.49 ft</b> <b>Total Depth: 52.49 ft</b> <b>Initial Depth to Water: 30.29 ft</b>	<b>Pump Type: dedicated</b> <b>Tubing Type: LDPE</b> <b>Pump Intake From TOC: 48 ft</b> <b>Estimated Total Volume Pumped: 3750 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 150 ml/min</b> <b>Final Draw Down: 0.92 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 884187</b>
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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	
9/13/2022 9:35 AM	00:00	6.48 pH	20.40 °C	0.81 µS/cm	8.41 mg/L	0.99 NTU	148.8 mV	30.60 ft	150.00 ml/min
9/13/2022 9:40 AM	05:00	4.94 pH	19.78 °C	0.76 µS/cm	1.57 mg/L	5.12 NTU	124.9 mV	31.04 ft	150.00 ml/min
9/13/2022 9:45 AM	10:00	5.03 pH	19.78 °C	0.77 µS/cm	1.61 mg/L	3.59 NTU	124.9 mV	31.14 ft	150.00 ml/min
9/13/2022 9:50 AM	15:00	5.05 pH	19.91 °C	0.77 µS/cm	1.57 mg/L	1.24 NTU	123.8 mV	31.18 ft	150.00 ml/min
9/13/2022 9:55 AM	20:00	5.04 pH	19.92 °C	0.77 µS/cm	1.27 mg/L	0.94 NTU	121.9 mV	31.21 ft	150.00 ml/min
9/13/2022 10:00 AM	25:00	5.04 pH	20.10 °C	0.77 µS/cm	1.19 mg/L	0.74 NTU	120.7 mV	31.21 ft	150.00 ml/min

## Samples

Sample ID:	Description:
DGWC-42	
FB-4	

# Low-Flow Test Report:

Test Date / Time: 9/13/2022 3:40:48 PM

Project: Plant McDonough (30)

Operator Name: Cole Mayer

<b>Location Name: DGWC-47</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 21.93 ft</b> <b>Total Depth: 31.93 ft</b> <b>Initial Depth to Water: 17.69 ft</b>	<b>Pump Type: peristaltic</b> <b>Tubing Type: LDPE</b> <b>Pump Intake From TOC: 26 ft</b> <b>Estimated Total Volume Pumped: 3000 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 150 ml/min</b> <b>Final Draw Down: 1.89 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 884187</b>
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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	
9/13/2022 3:40 PM	00:00	4.57 pH	29.26 °C	0.35 µS/cm	0.99 mg/L	0.97 NTU	80.1 mV	18.14 ft	100.00 ml/min
9/13/2022 3:45 PM	05:00	4.24 pH	25.87 °C	0.36 µS/cm	0.27 mg/L	0.83 NTU	79.8 mV	18.48 ft	100.00 ml/min
9/13/2022 3:50 PM	10:00	4.19 pH	25.24 °C	0.36 µS/cm	0.17 mg/L	0.59 NTU	80.2 mV	18.76 ft	100.00 ml/min
9/13/2022 3:55 PM	15:00	4.14 pH	24.57 °C	0.36 µS/cm	0.09 mg/L	1.12 NTU	81.5 mV	19.17 ft	150.00 ml/min
9/13/2022 4:00 PM	20:00	4.14 pH	24.37 °C	0.36 µS/cm	0.07 mg/L	0.67 NTU	82.3 mV	19.41 ft	150.00 ml/min
9/13/2022 4:05 PM	25:00	4.15 pH	24.19 °C	0.36 µS/cm	0.08 mg/L	0.77 NTU	83.4 mV	19.58 ft	150.00 ml/min

## Samples

Sample ID:	Description:
DGWC-47	

# Low-Flow Test Report:

Test Date / Time: 9/13/2022 11:45:33 AM

Project: Plant McDonough (28)

Operator Name: Cole Mayer

<b>Location Name: DGWC-48</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 23.49 ft</b> <b>Total Depth: 33.49 ft</b> <b>Initial Depth to Water: 14.99 ft</b>	<b>Pump Type: dedicated</b> <b>Tubing Type: LDPE</b> <b>Pump Intake From TOC: 28 ft</b> <b>Estimated Total Volume Pumped: 5000 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 250 ml/min</b> <b>Final Draw Down: 1.29 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 884187</b>
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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	
9/13/2022 11:45 AM	00:00	4.12 pH	26.93 °C	0.64 µS/cm	4.28 mg/L	1.32 NTU	126.5 mV	15.43 ft	250.00 ml/min
9/13/2022 11:50 AM	05:00	4.22 pH	20.76 °C	0.68 µS/cm	0.97 mg/L	4.01 NTU	127.5 mV	15.94 ft	250.00 ml/min
9/13/2022 11:55 AM	10:00	4.21 pH	20.62 °C	0.67 µS/cm	0.66 mg/L	3.99 NTU	128.1 mV	16.20 ft	250.00 ml/min
9/13/2022 12:00 PM	15:00	4.24 pH	20.51 °C	0.67 µS/cm	0.40 mg/L	2.70 NTU	128.7 mV	16.23 ft	250.00 ml/min
9/13/2022 12:05 PM	20:00	4.25 pH	20.54 °C	0.67 µS/cm	0.27 mg/L	1.10 NTU	129.6 mV	16.28 ft	250.00 ml/min

## Samples

Sample ID:	Description:
DGWC-48	
EB-3	



# Low-Flow Test Report:

Test Date / Time: 9/16/2022 9:23:08 AM

Project: Plant McDonough

Operator Name: Jude Waguespack

<b>Location Name: B-56</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 37.9 ft</b> <b>Total Depth: 47.9 ft</b> <b>Initial Depth to Water: 30.4 ft</b>	<b>Pump Type: bladder</b> <b>Tubing Type: LDPE</b> <b>Tubing Inner Diameter: 0.175 cm</b> <b>Tubing Length: 42 m</b> <b>Pump Intake From TOC: 42 ft</b> <b>Estimated Total Volume Pumped: 12500 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 250 ml/min</b> <b>Final Draw Down: 0.85 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 728541</b>
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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 %	+/- 2	+/- 1000 %	+/- 0.3	
9/16/2022 9:23 AM	00:00	4.54 pH	18.86 °C	514.07 µS/cm	1.23 mg/L	6.59 NTU	127.2 mV	30.40 ft	250.00 ml/min
9/16/2022 9:28 AM	05:00	4.50 pH	18.52 °C	513.59 µS/cm	0.44 mg/L	35.50 NTU	126.2 mV	31.15 ft	250.00 ml/min
9/16/2022 9:33 AM	10:00	4.50 pH	18.35 °C	520.32 µS/cm	0.26 mg/L	24.30 NTU	144.0 mV	31.25 ft	250.00 ml/min
9/16/2022 9:38 AM	15:00	4.50 pH	18.30 °C	521.65 µS/cm	0.21 mg/L	18.90 NTU	145.5 mV	31.25 ft	250.00 ml/min
9/16/2022 9:43 AM	20:00	4.52 pH	18.30 °C	522.40 µS/cm	0.19 mg/L	13.00 NTU	144.9 mV	31.25 ft	250.00 ml/min
9/16/2022 9:48 AM	25:00	4.52 pH	18.30 °C	522.86 µS/cm	0.17 mg/L	11.70 NTU	129.1 mV	31.25 ft	250.00 ml/min
9/16/2022 9:53 AM	30:00	4.52 pH	18.35 °C	525.08 µS/cm	0.15 mg/L	8.35 NTU	128.8 mV	31.25 ft	250.00 ml/min
9/16/2022 9:58 AM	35:00	4.53 pH	18.38 °C	529.85 µS/cm	0.15 mg/L	7.61 NTU	143.4 mV	31.25 ft	250.00 ml/min
9/16/2022 10:03 AM	40:00	4.54 pH	18.35 °C	531.67 µS/cm	0.13 mg/L	5.52 NTU	128.1 mV	31.25 ft	250.00 ml/min
9/16/2022 10:08 AM	45:00	4.55 pH	18.38 °C	534.50 µS/cm	0.13 mg/L	5.60 NTU	141.2 mV	31.25 ft	250.00 ml/min
9/16/2022 10:13 AM	50:00	4.56 pH	18.41 °C	532.66 µS/cm	0.12 mg/L	4.57 NTU	127.2 mV	31.25 ft	250.00 ml/min

## Samples

Sample ID:	Description:
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# Low-Flow Test Report:

Test Date / Time: 9/14/2022 12:03:32 PM

Project: Plant McDonough

Operator Name: M. Mann

<b>Location Name: B-63</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 36 ft</b> <b>Total Depth: 46.15 ft</b> <b>Initial Depth to Water: 30.46 ft</b>	<b>Pump Type: bladder</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 41 ft</b> <b>Estimated Total Volume Pumped: 11681.667 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.92 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 851413</b>
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## Test Notes:

## Weather Conditions:

Sunny

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/14/2022 12:03 PM	00:00	5.80 pH	32.29 °C	283.55 µS/cm	2.10 mg/L	111.00 NTU	42.7 mV	30.46 ft	350.00 ml/min
9/14/2022 12:08 PM	04:50	5.33 pH	21.91 °C	334.46 µS/cm	0.20 mg/L	72.90 NTU	74.0 mV	31.35 ft	300.00 ml/min
9/14/2022 12:13 PM	09:50	5.34 pH	21.64 °C	339.74 µS/cm	0.31 mg/L	33.40 NTU	78.6 mV	31.29 ft	200.00 ml/min
9/14/2022 12:18 PM	14:50	5.33 pH	21.75 °C	334.56 µS/cm	0.49 mg/L	22.50 NTU	81.0 mV	31.29 ft	200.00 ml/min
9/14/2022 12:23 PM	19:50	5.32 pH	21.72 °C	333.13 µS/cm	0.46 mg/L	17.00 NTU	84.3 mV	31.27 ft	200.00 ml/min
9/14/2022 12:35 PM	32:17	5.34 pH	21.68 °C	331.12 µS/cm	0.43 mg/L	12.30 NTU	86.7 mV	31.32 ft	200.00 ml/min
9/14/2022 12:40 PM	37:17	5.35 pH	21.74 °C	333.36 µS/cm	0.43 mg/L	7.47 NTU	86.9 mV	31.34 ft	200.00 ml/min
9/14/2022 12:45 PM	42:17	5.33 pH	21.69 °C	331.22 µS/cm	0.44 mg/L	6.90 NTU	86.8 mV	31.37 ft	200.00 ml/min
9/14/2022 12:50 PM	47:17	5.33 pH	21.73 °C	334.89 µS/cm	0.41 mg/L	5.70 NTU	86.9 mV	31.38 ft	200.00 ml/min
9/14/2022 12:55 PM	52:17	5.31 pH	21.62 °C	331.42 µS/cm	0.39 mg/L	4.81 NTU	86.9 mV	31.38 ft	200.00 ml/min

## Samples

Sample ID:	Description:
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B-63	
FB-5	

Created using VuSitu from In-Situ, Inc.

# Low-Flow Test Report:

Test Date / Time: 9/16/2022 9:03:32 AM

Project: SCS Plant McDonough

Operator Name: Duane Fulton

<b>Location Name: B-66</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 47.99 ft</b> <b>Total Depth: 57.99 ft</b> <b>Initial Depth to Water: 21.74 ft</b>	<b>Pump Type: Alexis Peri Pump</b> <b>Tubing Type: LDPE</b> <b>Pump Intake From TOC: 52 ft</b> <b>Estimated Total Volume Pumped: 4060 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 55 ml/min</b> <b>Final Draw Down: 1.76 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 883533</b>
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## Test Notes:

## Weather Conditions:

Clear, 76

## 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	
9/16/2022 9:03 AM	00:00	6.65 pH	18.88 °C	781.83 µS/cm	4.12 mg/L	4.26 NTU	1.5 mV	22.01 ft	100.00 ml/min
9/16/2022 9:08 AM	05:00	6.58 pH	18.84 °C	795.39 µS/cm	0.75 mg/L	1.83 NTU	-19.5 mV	22.53 ft	85.00 ml/min
9/16/2022 9:13 AM	10:00	6.59 pH	18.94 °C	796.84 µS/cm	0.41 mg/L	1.14 NTU	-39.3 mV	22.80 ft	66.00 ml/min
9/16/2022 9:18 AM	15:00	6.59 pH	19.03 °C	796.70 µS/cm	0.32 mg/L	1.55 NTU	-24.4 mV	23.01 ft	66.00 ml/min
9/16/2022 9:23 AM	20:00	6.59 pH	19.16 °C	796.77 µS/cm	0.30 mg/L	1.79 NTU	-24.3 mV	23.13 ft	55.00 ml/min
9/16/2022 9:28 AM	25:00	6.59 pH	19.30 °C	794.25 µS/cm	0.29 mg/L	1.83 NTU	-23.8 mV	23.22 ft	55.00 ml/min
9/16/2022 9:33 AM	30:00	6.58 pH	19.37 °C	791.15 µS/cm	0.27 mg/L	1.78 NTU	-23.0 mV	23.30 ft	55.00 ml/min
9/16/2022 9:38 AM	35:00	6.57 pH	19.44 °C	788.89 µS/cm	0.29 mg/L	0.86 NTU	-21.2 mV	23.34 ft	55.00 ml/min
9/16/2022 9:43 AM	40:00	6.58 pH	19.52 °C	787.14 µS/cm	0.34 mg/L	1.87 NTU	-35.6 mV	23.40 ft	55.00 ml/min
9/16/2022 9:48 AM	45:00	6.58 pH	19.61 °C	787.64 µS/cm	0.42 mg/L	1.17 NTU	-18.7 mV	23.41 ft	55.00 ml/min
9/16/2022 9:53 AM	50:00	6.59 pH	19.70 °C	786.18 µS/cm	0.45 mg/L	1.05 NTU	-17.8 mV	23.45 ft	55.00 ml/min
9/16/2022 9:58 AM	55:00	6.59 pH	19.87 °C	788.28 µS/cm	0.49 mg/L	1.07 NTU	-32.1 mV	23.46 ft	55.00 ml/min
9/16/2022 10:03 AM	01:00:00	6.60 pH	19.95 °C	788.78 µS/cm	0.51 mg/L	1.05 NTU	-17.2 mV	23.48 ft	55.00 ml/min

9/16/2022 10:08 AM	01:05:00	6.60 pH	19.97 °C	788.53 µS/cm	0.52 mg/L	1.02 NTU	-30.5 mV	23.50 ft	55.00 ml/min
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### Samples

Sample ID:	Description:
B-66	

# Low-Flow Test Report:

Test Date / Time: 9/13/2022 1:26:24 PM

Project: Plant McDonough

Operator Name: M. Mann

<b>Location Name: B-77</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 33 ft</b> <b>Total Depth: 43.46 ft</b> <b>Initial Depth to Water: 30.7 ft</b>	<b>Pump Type: bladder</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 38 ft</b> <b>Estimated Total Volume Pumped: 12875 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 2.22 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 851413</b>
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## Test Notes:

## Weather Conditions:

Sunny

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/13/2022 1:26 PM	00:00	6.12 pH	31.72 °C	301.01 µS/cm	2.47 mg/L	40.10 NTU	58.8 mV	30.70 ft	275.00 ml/min
9/13/2022 1:31 PM	05:00	6.36 pH	22.45 °C	323.88 µS/cm	0.18 mg/L	39.00 NTU	11.8 mV	31.75 ft	275.00 ml/min
9/13/2022 1:36 PM	10:00	6.39 pH	22.08 °C	322.42 µS/cm	0.13 mg/L	43.50 NTU	-5.4 mV	32.07 ft	275.00 ml/min
9/13/2022 1:41 PM	15:00	6.38 pH	22.82 °C	310.58 µS/cm	0.16 mg/L	31.40 NTU	-12.7 mV	31.99 ft	275.00 ml/min
9/13/2022 1:46 PM	20:00	6.35 pH	22.57 °C	292.32 µS/cm	0.09 mg/L	21.90 NTU	-13.2 mV	32.15 ft	275.00 ml/min
9/13/2022 1:51 PM	25:00	6.34 pH	21.87 °C	292.27 µS/cm	0.09 mg/L	28.30 NTU	-11.0 mV	32.39 ft	200.00 ml/min
9/13/2022 1:56 PM	30:00	6.32 pH	22.25 °C	289.74 µS/cm	0.08 mg/L	16.40 NTU	-12.6 mV	32.49 ft	200.00 ml/min
9/13/2022 2:01 PM	35:00	6.33 pH	22.29 °C	290.32 µS/cm	0.08 mg/L	12.60 NTU	-11.8 mV	32.61 ft	200.00 ml/min
9/13/2022 2:06 PM	40:00	6.33 pH	22.30 °C	289.81 µS/cm	0.07 mg/L	9.20 NTU	-13.5 mV	32.69 ft	200.00 ml/min
9/13/2022 2:11 PM	45:00	6.34 pH	22.30 °C	290.78 µS/cm	0.06 mg/L	7.17 NTU	-14.2 mV	32.78 ft	200.00 ml/min
9/13/2022 2:16 PM	50:00	6.33 pH	22.31 °C	292.30 µS/cm	0.06 mg/L	5.66 NTU	-14.9 mV	32.86 ft	200.00 ml/min
9/13/2022 2:21 PM	55:00	6.34 pH	22.29 °C	291.54 µS/cm	0.05 mg/L	4.94 NTU	-15.2 mV	32.92 ft	200.00 ml/min

**Samples**

Sample ID:	Description:
B-77	Extra Rad



# Low-Flow Test Report:

Test Date / Time: 9/16/2022 11:32:15 AM

Project: SCS Plant McDonough

Operator Name: Duane Fulton

<b>Location Name: B-82</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 37.65 ft</b> <b>Total Depth: 47.65 ft</b> <b>Initial Depth to Water: 18.96 ft</b>	<b>Pump Type: Alexis Peri Pump</b> <b>Tubing Type: LDPE</b> <b>Pump Intake From TOC: 42 ft</b> <b>Estimated Total Volume Pumped: 3125 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 75 ml/min</b> <b>Final Draw Down: 0.66 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 883533</b>
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## Test Notes:

## Weather Conditions:

Clear, 77

## 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	
9/16/2022 11:32 AM	00:00	5.74 pH	28.31 °C	776.27 µS/cm	3.95 mg/L	3.77 NTU	121.6 mV	19.17 ft	100.00 ml/min
9/16/2022 11:37 AM	05:00	5.08 pH	22.88 °C	830.02 µS/cm	0.75 mg/L	3.65 NTU	233.7 mV	19.49 ft	75.00 ml/min
9/16/2022 11:42 AM	10:00	5.05 pH	22.48 °C	829.67 µS/cm	0.59 mg/L	4.14 NTU	165.1 mV	19.55 ft	75.00 ml/min
9/16/2022 11:47 AM	15:00	5.04 pH	22.29 °C	834.81 µS/cm	0.54 mg/L	2.45 NTU	209.2 mV	19.60 ft	75.00 ml/min
9/16/2022 11:52 AM	20:00	5.04 pH	22.15 °C	831.99 µS/cm	0.50 mg/L	2.27 NTU	150.4 mV	19.62 ft	75.00 ml/min
9/16/2022 11:57 AM	25:00	5.04 pH	22.23 °C	833.79 µS/cm	0.48 mg/L	2.15 NTU	188.8 mV	19.62 ft	75.00 ml/min
9/16/2022 12:02 PM	30:00	5.03 pH	22.55 °C	831.19 µS/cm	0.47 mg/L	1.82 NTU	141.3 mV	19.62 ft	75.00 ml/min
9/16/2022 12:07 PM	35:00	5.02 pH	22.54 °C	826.34 µS/cm	0.46 mg/L	2.01 NTU	132.3 mV	19.62 ft	75.00 ml/min
9/16/2022 12:12 PM	40:00	5.02 pH	22.36 °C	829.57 µS/cm	0.43 mg/L	2.23 NTU	169.7 mV	19.62 ft	75.00 ml/min

## Samples

Sample ID:	Description:
B-82	

# Low-Flow Test Report:

Test Date / Time: 9/13/2022 11:23:18 AM

Project: Plant McDonough

Operator Name: M. Mann

<b>Location Name: B-83</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 39 ft</b> <b>Total Depth: 48.9 ft</b> <b>Initial Depth to Water: 31.18 ft</b>	<b>Pump Type: bladder</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 44 ft</b> <b>Estimated Total Volume Pumped: 3400 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 210 ml/min</b> <b>Final Draw Down: 0.05 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 851413</b>
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## Test Notes:

## Weather Conditions:

Sunny

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/13/2022 11:23 AM	00:00	5.77 pH	28.97 °C	318.88 µS/cm	4.58 mg/L	3.77 NTU	41.8 mV	31.18 ft	80.00 ml/min
9/13/2022 11:24 AM	01:17	5.68 pH	26.65 °C	338.66 µS/cm	2.33 mg/L	3.77 NTU	44.8 mV	31.18 ft	80.00 ml/min
9/13/2022 11:28 AM	05:00	5.64 pH	25.14 °C	350.64 µS/cm	1.11 mg/L	3.77 NTU	47.8 mV	31.18 ft	80.00 ml/min
9/13/2022 11:33 AM	10:00	5.61 pH	24.67 °C	355.42 µS/cm	0.66 mg/L	2.10 NTU	49.5 mV	31.19 ft	210.00 ml/min
9/13/2022 11:38 AM	15:00	5.60 pH	22.20 °C	354.41 µS/cm	0.24 mg/L	1.12 NTU	53.9 mV	31.20 ft	210.00 ml/min
9/13/2022 11:43 AM	20:00	5.60 pH	22.08 °C	354.40 µS/cm	0.17 mg/L	0.99 NTU	54.2 mV	31.23 ft	210.00 ml/min

## Samples

Sample ID:	Description:
B-83	
DUP-4	

# Low-Flow Test Report:

Test Date / Time: 9/16/2022 10:29:35 AM

Project: Plant McDonough

Operator Name: M. Mann

<b>Location Name: B-88</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 65 ft</b> <b>Total Depth: 75.06 ft</b> <b>Initial Depth to Water: 37.8 ft</b>	<b>Pump Type: bladder</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 70 ft</b> <b>Estimated Total Volume Pumped: 3000 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.1 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 851413</b>
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## Test Notes:

## Weather Conditions:

Sunny

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/16/2022 10:29 AM	00:00	6.17 pH	22.94 °C	815.44 µS/cm	4.12 mg/L	4.10 NTU	107.5 mV	37.80 ft	200.00 ml/min
9/16/2022 10:34 AM	05:00	5.49 pH	18.96 °C	967.19 µS/cm	0.45 mg/L	3.71 NTU	115.6 mV	37.88 ft	200.00 ml/min
9/16/2022 10:39 AM	10:00	5.46 pH	18.72 °C	977.78 µS/cm	0.47 mg/L	2.78 NTU	120.3 mV	37.91 ft	200.00 ml/min
9/16/2022 10:44 AM	15:00	5.47 pH	18.77 °C	979.56 µS/cm	0.52 mg/L	2.40 NTU	121.4 mV	37.90 ft	200.00 ml/min

## Samples

Sample ID:	Description:
B-88	

# Low-Flow Test Report:

Test Date / Time: 9/12/2022 11:12:25 AM

Project: SCS Plant McDonough

Operator Name: Duane Fulton

<b>Location Name: B-92</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 14.6 ft</b> <b>Total Depth: 24.6 ft</b> <b>Initial Depth to Water: 5.87 ft</b>	<b>Pump Type: Alexis Peri Pump</b> <b>Tubing Type: LDPE</b> <b>Pump Intake From TOC: 20 ft</b> <b>Estimated Total Volume Pumped: 4590 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 153 ml/min</b> <b>Final Draw Down: 0.08 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 883533</b>
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## Test Notes:

Conductivity lower than previous sampling event.

## Weather Conditions:

Cloudy, 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	
9/12/2022 11:12 AM	00:00	4.66 pH	27.05 °C	789.38 µS/cm	4.40 mg/L	8.11 NTU	194.5 mV	5.94 ft	153.00 ml/min
9/12/2022 11:17 AM	05:00	4.56 pH	21.76 °C	849.95 µS/cm	0.30 mg/L	2.56 NTU	460.6 mV	5.95 ft	153.00 ml/min
9/12/2022 11:22 AM	10:00	4.56 pH	21.60 °C	855.41 µS/cm	0.18 mg/L	3.14 NTU	374.6 mV	5.95 ft	153.00 ml/min
9/12/2022 11:27 AM	15:00	4.56 pH	21.49 °C	855.12 µS/cm	0.15 mg/L	3.01 NTU	389.9 mV	5.95 ft	153.00 ml/min
9/12/2022 11:32 AM	20:00	4.56 pH	21.42 °C	855.09 µS/cm	0.13 mg/L	2.19 NTU	398.3 mV	5.95 ft	153.00 ml/min
9/12/2022 11:37 AM	25:00	4.55 pH	21.52 °C	853.97 µS/cm	0.12 mg/L	1.47 NTU	536.4 mV	5.95 ft	153.00 ml/min
9/12/2022 11:42 AM	30:00	4.56 pH	21.11 °C	854.16 µS/cm	0.10 mg/L	1.11 NTU	410.4 mV	5.95 ft	153.00 ml/min

## Samples

Sample ID:	Description:
B-92	

# Low-Flow Test Report:

Test Date / Time: 9/12/2022 12:37:25 PM

Project: SCS Plant McDonough

Operator Name: Duane Fulton

<b>Location Name: B-93</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 19.3 ft</b> <b>Total Depth: 29.3 ft</b> <b>Initial Depth to Water: 8.97 ft</b>	<b>Pump Type: Alexis Peri Pump</b> <b>Tubing Type: LDPE</b> <b>Pump Intake From TOC: 24 ft</b> <b>Estimated Total Volume Pumped: 3435 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 153 ml/min</b> <b>Final Draw Down: 0.33 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 883533</b>
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## Test Notes:

Conductivity lower than before.

## Weather Conditions:

Cloudy, 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	
9/12/2022 12:37 PM	00:00	4.92 pH	28.82 °C	951.20 µS/cm	2.41 mg/L	1.11 NTU	379.6 mV	9.13 ft	75.00 ml/min
9/12/2022 12:42 PM	05:00	4.68 pH	23.09 °C	1,021.5 µS/cm	0.67 mg/L	1.90 NTU	508.6 mV	9.23 ft	153.00 ml/min
9/12/2022 12:47 PM	10:00	4.67 pH	21.78 °C	1,045.9 µS/cm	0.54 mg/L	1.65 NTU	571.0 mV	9.30 ft	153.00 ml/min
9/12/2022 12:52 PM	15:00	4.69 pH	21.13 °C	1,050.4 µS/cm	0.48 mg/L	1.63 NTU	502.6 mV	9.32 ft	153.00 ml/min
9/12/2022 12:57 PM	20:00	4.70 pH	20.93 °C	1,051.2 µS/cm	0.46 mg/L	1.39 NTU	499.6 mV	9.30 ft	153.00 ml/min
9/12/2022 1:02 PM	25:00	4.70 pH	21.10 °C	1,053.5 µS/cm	0.45 mg/L	0.95 NTU	498.1 mV	9.30 ft	153.00 ml/min

## Samples

Sample ID:	Description:
B-93	

# Low-Flow Test Report:

Test Date / Time: 9/13/2022 12:06:35 PM

Project: Plant McDonough

Operator Name: Jude Waguespack

<b>Location Name: B-97</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 20.71 ft</b> <b>Total Depth: 30.71 ft</b> <b>Initial Depth to Water: 7.1 ft</b>	<b>Pump Type: peristaltic</b> <b>Tubing Type: LDPE</b> <b>Tubing Inner Diameter: 0.175 cm</b> <b>Tubing Length: 42 m</b> <b>Pump Intake From TOC: 25 ft</b> <b>Estimated Total Volume Pumped: 6000 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 300 ml/min</b> <b>Final Draw Down: 0.05 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 728541</b>
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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 %	+/- 2	+/- 1000 %	+/- 0.3	
9/13/2022 12:06 PM	00:00	5.54 pH	22.36 °C	1,335.4 µS/cm	0.50 mg/L	0.67 NTU	400.9 mV	7.10 ft	300.00 ml/min
9/13/2022 12:11 PM	05:00	5.54 pH	20.51 °C	1,381.5 µS/cm	0.18 mg/L	0.59 NTU	518.3 mV	7.15 ft	300.00 ml/min
9/13/2022 12:16 PM	10:00	5.54 pH	20.26 °C	1,386.7 µS/cm	0.14 mg/L	0.47 NTU	521.6 mV	7.15 ft	300.00 ml/min
9/13/2022 12:21 PM	15:00	5.54 pH	20.15 °C	1,386.2 µS/cm	0.14 mg/L	0.47 NTU	522.5 mV	7.15 ft	300.00 ml/min
9/13/2022 12:26 PM	20:00	5.54 pH	20.16 °C	1,415.3 µS/cm	0.14 mg/L	0.65 NTU	421.3 mV	7.15 ft	300.00 ml/min

## Samples

Sample ID:	Description:
B-97	

# Low-Flow Test Report:

Test Date / Time: 9/13/2022 10:44:05 AM

Project: SCS Plant McDonough (2)

Operator Name: Duane Fulton

<b>Location Name: B-98</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 9.01 ft</b> <b>Total Depth: 19.01 ft</b> <b>Initial Depth to Water: 10.15 ft</b>	<b>Pump Type: Alexis Peri Pump</b> <b>Tubing Type: LDPE</b> <b>Pump Intake From TOC: 14.64 ft</b> <b>Estimated Total Volume Pumped: 7387.7 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 53 ml/min</b> <b>Final Draw Down: 4.45 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 883533</b>
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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	
9/13/2022 10:44 AM	00:00	6.16 pH	25.65 °C	343.32 µS/cm	4.71 mg/L	11.38 NTU	128.6 mV	10.50 ft	195.00 ml/min
9/13/2022 10:49 AM	05:00	6.20 pH	22.11 °C	359.86 µS/cm	3.24 mg/L	11.40 NTU	115.4 mV	10.95 ft	100.00 ml/min
9/13/2022 10:54 AM	10:00	6.21 pH	21.95 °C	363.64 µS/cm	3.25 mg/L	13.80 NTU	112.5 mV	11.33 ft	100.00 ml/min
9/13/2022 10:59 AM	15:00	6.21 pH	21.56 °C	363.14 µS/cm	3.40 mg/L	19.10 NTU	147.9 mV	11.65 ft	100.00 ml/min
9/13/2022 11:04 AM	20:00	6.19 pH	21.33 °C	367.80 µS/cm	3.39 mg/L	21.00 NTU	115.6 mV	12.10 ft	142.00 ml/min
9/13/2022 11:09 AM	25:00	6.20 pH	20.95 °C	376.70 µS/cm	3.34 mg/L	15.80 NTU	104.4 mV	12.80 ft	142.00 ml/min
9/13/2022 11:14 AM	30:00	6.19 pH	20.71 °C	378.57 µS/cm	2.76 mg/L	18.20 NTU	137.2 mV	13.33 ft	125.00 ml/min
9/13/2022 11:19 AM	35:00	6.20 pH	20.69 °C	394.14 µS/cm	2.95 mg/L	34.60 NTU	105.7 mV	13.75 ft	125.00 ml/min
9/13/2022 11:24 AM	40:00	6.22 pH	20.57 °C	353.25 µS/cm	2.63 mg/L	39.30 NTU	130.5 mV	14.45 ft	125.00 ml/min
9/13/2022 11:29 AM	45:00	6.20 pH	20.98 °C	361.69 µS/cm	2.75 mg/L	18.20 NTU	105.3 mV	14.53 ft	80.00 ml/min
9/13/2022 11:34 AM	50:00	6.18 pH	20.90 °C	370.75 µS/cm	2.27 mg/L	14.30 NTU	129.8 mV	14.62 ft	75.00 ml/min
9/13/2022 11:39 AM	55:00	6.18 pH	21.02 °C	347.93 µS/cm	3.00 mg/L	9.87 NTU	134.9 mV	14.54 ft	53.00 ml/min
9/13/2022 11:44 AM	01:00:00	6.18 pH	21.02 °C	388.49 µS/cm	3.06 mg/L	5.65 NTU	109.5 mV	14.54 ft	53.00 ml/min

9/13/2022 11:49 AM	01:05:00	6.18 pH	20.97 °C	391.17 µS/cm	3.01 mg/L	4.55 NTU	106.2 mV	14.60 ft	53.00 ml/min
9/13/2022 11:54 AM	01:10:00	6.17 pH	20.94 °C	394.06 µS/cm	3.05 mg/L	4.44 NTU	105.0 mV	14.60 ft	53.00 ml/min
9/13/2022 11:56 AM	01:11:58	6.18 pH	20.93 °C	404.66 µS/cm	3.10 mg/L	4.34 NTU	117.9 mV	14.60 ft	53.00 ml/min

## Samples

Sample ID:	Description:
B-98	



# Low-Flow Test Report:

**Test Date / Time:** 9/16/2022 10:45:55 AM

**Project:** Plant McDonough (39)

**Operator Name:** Cole Mayer

<b>Location Name: B-101D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 64.9 ft</b> <b>Total Depth: 74.9 ft</b> <b>Initial Depth to Water: 31.83 ft</b>	<b>Pump Type: peristaltic</b> <b>Tubing Type: LDPE</b> <b>Pump Intake From TOC: 70 ft</b> <b>Estimated Total Volume Pumped: 6500 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 150 ml/min</b> <b>Final Draw Down: 5.28 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 884187</b>
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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	
9/16/2022 10:45 AM	00:00	5.90 pH	24.24 °C	480.61 µS/cm	5.83 mg/L	1.53 NTU	108.5 mV	31.83 ft	100.00 ml/min
9/16/2022 10:50 AM	05:00	5.97 pH	20.42 °C	573.38 µS/cm	0.93 mg/L	3.79 NTU	110.8 mV	32.38 ft	150.00 ml/min
9/16/2022 10:55 AM	10:00	5.97 pH	20.05 °C	583.16 µS/cm	0.40 mg/L	4.41 NTU	110.7 mV	33.18 ft	150.00 ml/min
9/16/2022 11:00 AM	15:00	5.97 pH	19.95 °C	584.05 µS/cm	0.29 mg/L	4.70 NTU	111.0 mV	34.15 ft	150.00 ml/min
9/16/2022 11:05 AM	20:00	5.98 pH	19.87 °C	584.39 µS/cm	0.24 mg/L	3.91 NTU	111.1 mV	35.02 ft	150.00 ml/min
9/16/2022 11:10 AM	25:00	5.96 pH	19.86 °C	575.09 µS/cm	0.20 mg/L	3.20 NTU	110.6 mV	35.84 ft	150.00 ml/min
9/16/2022 11:15 AM	30:00	5.96 pH	19.78 °C	567.81 µS/cm	0.18 mg/L	2.44 NTU	110.0 mV	37.04 ft	150.00 ml/min
9/16/2022 11:20 AM	35:00	5.95 pH	19.69 °C	564.25 µS/cm	0.17 mg/L	2.16 NTU	109.8 mV	36.50 ft	150.00 ml/min
9/16/2022 11:25 AM	40:00	5.94 pH	20.52 °C	567.00 µS/cm	0.22 mg/L	2.06 NTU	108.5 mV	37.08 ft	150.00 ml/min
9/16/2022 11:30 AM	45:00	5.92 pH	20.77 °C	546.02 µS/cm	0.21 mg/L	0.98 NTU	107.8 mV	37.11 ft	150.00 ml/min

## Samples

Sample ID:	Description:
B-101D	

# Low-Flow Test Report:

Test Date / Time: 9/15/2022 11:12:15 AM

Project: SCS Plant McDonough

Operator Name: Duane Fulton

<b>Location Name: B-102D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 74.4 ft</b> <b>Total Depth: 84.4 ft</b> <b>Initial Depth to Water: 34.28 ft</b>	<b>Pump Type: QED Bladder Pump</b> <b>Tubing Type: LDPE</b> <b>Pump Intake From TOC: 80 ft</b> <b>Estimated Total Volume Pumped: 3425 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 77 ml/min</b> <b>Final Draw Down: 0.4 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 883533</b>
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## Test Notes:

## Weather Conditions:

Clear, 76

## 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	
9/15/2022 11:12 AM	00:00	6.63 pH	25.17 °C	597.28 µS/cm	3.09 mg/L	1.74 NTU	-68.6 mV	34.43 ft	75.00 ml/min
9/15/2022 11:17 AM	05:00	5.77 pH	22.40 °C	606.77 µS/cm	0.97 mg/L	1.03 NTU	-37.0 mV	34.55 ft	75.00 ml/min
9/15/2022 11:22 AM	10:00	5.55 pH	22.00 °C	609.11 µS/cm	0.73 mg/L	1.18 NTU	-17.7 mV	34.60 ft	75.00 ml/min
9/15/2022 11:27 AM	15:00	5.48 pH	21.87 °C	615.37 µS/cm	0.59 mg/L	1.25 NTU	6.2 mV	34.68 ft	77.00 ml/min
9/15/2022 11:32 AM	20:00	5.46 pH	21.91 °C	611.65 µS/cm	0.49 mg/L	0.92 NTU	25.1 mV	34.68 ft	77.00 ml/min
9/15/2022 11:37 AM	25:00	5.45 pH	21.95 °C	612.13 µS/cm	0.43 mg/L	1.20 NTU	36.0 mV	34.67 ft	77.00 ml/min
9/15/2022 11:42 AM	30:00	5.44 pH	22.00 °C	613.53 µS/cm	0.40 mg/L	0.84 NTU	45.1 mV	34.68 ft	77.00 ml/min
9/15/2022 11:47 AM	35:00	5.44 pH	22.09 °C	612.30 µS/cm	0.36 mg/L	0.50 NTU	66.4 mV	34.68 ft	77.00 ml/min
9/15/2022 11:52 AM	40:00	5.43 pH	22.04 °C	612.13 µS/cm	0.32 mg/L	0.59 NTU	59.5 mV	34.67 ft	77.00 ml/min
9/15/2022 11:57 AM	45:00	5.43 pH	21.96 °C	614.36 µS/cm	0.31 mg/L	0.73 NTU	62.0 mV	34.68 ft	77.00 ml/min

## Samples

Sample ID:	Description:
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B-102D	
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# Low-Flow Test Report:

**Test Date / Time:** 9/13/2022 1:10:03 PM

**Project:** Plant McDonough (29)

**Operator Name:** Cole Mayer

<b>Location Name: B-104D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 50 ft</b> <b>Total Depth: 60 ft</b> <b>Initial Depth to Water: 7.41 ft</b>	<b>Pump Type: bladder</b> <b>Tubing Type: LDPE</b> <b>Pump Intake From TOC: 55 ft</b> <b>Estimated Total Volume Pumped: 7500 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 100 ml/min</b> <b>Final Draw Down: 6.96 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 884187</b>
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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	
9/13/2022 1:10 PM	00:00	6.21 pH	34.46 °C	0.95 µS/cm	2.91 mg/L	1.52 NTU	105.2 mV	6.25 ft	200.00 ml/min
9/13/2022 1:15 PM	05:00	6.15 pH	22.44 °C	1.04 µS/cm	0.36 mg/L	1.16 NTU	83.7 mV	8.35 ft	200.00 ml/min
9/13/2022 1:20 PM	10:00	6.30 pH	21.77 °C	1.05 µS/cm	0.22 mg/L	0.97 NTU	73.3 mV	9.82 ft	200.00 ml/min
9/13/2022 1:25 PM	15:00	6.39 pH	21.54 °C	1.05 µS/cm	0.17 mg/L	1.13 NTU	63.9 mV	11.40 ft	200.00 ml/min
9/13/2022 1:30 PM	20:00	6.41 pH	21.38 °C	1.05 µS/cm	0.14 mg/L	0.85 NTU	56.0 mV	12.80 ft	200.00 ml/min
9/13/2022 1:35 PM	25:00	6.36 pH	21.99 °C	1.05 µS/cm	0.14 mg/L	1.03 NTU	48.6 mV	13.67 ft	150.00 ml/min
9/13/2022 1:40 PM	30:00	6.34 pH	22.01 °C	1.05 µS/cm	0.14 mg/L	0.80 NTU	44.4 mV	14.41 ft	150.00 ml/min
9/13/2022 1:45 PM	35:00	6.33 pH	22.51 °C	1.06 µS/cm	0.17 mg/L	0.70 NTU	39.1 mV	14.32 ft	100.00 ml/min
9/13/2022 1:50 PM	40:00	6.50 pH	23.55 °C	1.07 µS/cm	0.35 mg/L	0.60 NTU	34.7 mV	14.31 ft	100.00 ml/min
9/13/2022 1:55 PM	45:00	6.49 pH	23.14 °C	1.08 µS/cm	0.15 mg/L	0.52 NTU	27.3 mV	14.37 ft	100.00 ml/min

## Samples

Sample ID:	Description:
B-104D	

# Low-Flow Test Report:

Test Date / Time: 9/16/2022 8:56:31 AM

Project: Plant McDonough

Operator Name: M. Mann

<b>Location Name: B-106D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 69 ft</b> <b>Total Depth: 79.4 ft</b> <b>Initial Depth to Water: 40.1 ft</b>	<b>Pump Type: bladder</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 74 ft</b> <b>Estimated Total Volume Pumped: 4850 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 215 ml/min</b> <b>Final Draw Down: 0.64 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 851413</b>
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## Test Notes:

## Weather Conditions:

Sunny

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/16/2022 8:56 AM	00:00	6.99 pH	20.59 °C	465.86 µS/cm	3.80 mg/L	2.82 NTU	109.5 mV	40.10 ft	325.00 ml/min
9/16/2022 9:01 AM	05:00	5.93 pH	18.61 °C	419.30 µS/cm	1.12 mg/L	1.70 NTU	89.5 mV	40.74 ft	215.00 ml/min
9/16/2022 9:06 AM	10:00	5.84 pH	18.76 °C	420.95 µS/cm	1.13 mg/L	1.18 NTU	90.5 mV	40.76 ft	215.00 ml/min
9/16/2022 9:11 AM	15:00	5.82 pH	18.78 °C	420.86 µS/cm	1.09 mg/L	1.40 NTU	91.8 mV	40.72 ft	215.00 ml/min
9/16/2022 9:16 AM	20:00	5.82 pH	18.79 °C	421.00 µS/cm	1.07 mg/L	1.16 NTU	92.8 mV	40.74 ft	215.00 ml/min

## Samples

Sample ID:	Description:
B-106D	

# Low-Flow Test Report:

Test Date / Time: 9/14/2022 9:49:44 AM

Project: Plant McDonough (31)

Operator Name: Cole Mayer

<b>Location Name: B-107D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 75.5 ft</b> <b>Total Depth: 85.5 ft</b> <b>Initial Depth to Water: 23.92 ft</b>	<b>Pump Type: peristaltic</b> <b>Tubing Type: LDPE</b> <b>Pump Intake From TOC: 80 ft</b> <b>Estimated Total Volume Pumped: 3500 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 150 ml/min</b> <b>Final Draw Down: 0.13 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 884187</b>
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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	
9/14/2022 9:49 AM	00:00	6.60 pH	24.88 °C	0.63 µS/cm	4.29 mg/L	1.09 NTU	93.2 mV	23.99 ft	100.00 ml/min
9/14/2022 9:54 AM	05:00	5.88 pH	21.51 °C	0.72 µS/cm	0.39 mg/L	1.15 NTU	94.7 mV	24.01 ft	150.00 ml/min
9/14/2022 9:59 AM	10:00	5.86 pH	21.11 °C	0.72 µS/cm	0.19 mg/L	0.70 NTU	96.2 mV	24.03 ft	150.00 ml/min
9/14/2022 10:04 AM	15:00	5.86 pH	21.16 °C	0.72 µS/cm	0.15 mg/L	1.63 NTU	95.1 mV	24.04 ft	150.00 ml/min
9/14/2022 10:09 AM	20:00	5.87 pH	21.17 °C	0.71 µS/cm	0.13 mg/L	0.75 NTU	95.7 mV	24.05 ft	150.00 ml/min
9/14/2022 10:14 AM	25:00	5.87 pH	21.26 °C	0.72 µS/cm	0.12 mg/L	1.05 NTU	94.2 mV	24.05 ft	150.00 ml/min

## Samples

Sample ID:	Description:
B-107D	

# Low-Flow Test Report:

Test Date / Time: 9/15/2022 1:40:36 PM

Project: Plant McDonough (36)

Operator Name: Cole Mayer

<b>Location Name: B-108D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 69 ft</b> <b>Total Depth: 79 ft</b> <b>Initial Depth to Water: 22.91 ft</b>	<b>Pump Type: peristaltic</b> <b>Tubing Type: LDPE</b> <b>Pump Intake From TOC: 74 ft</b> <b>Estimated Total Volume Pumped: 3750 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 150 ml/min</b> <b>Final Draw Down: 0.49 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 884187</b>
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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	
9/15/2022 2:40 PM	00:00	5.85 pH	34.29 °C	653.02 µS/cm	2.53 mg/L	1.49 NTU	118.4 mV	23.13 ft	150.00 ml/min
9/15/2022 1:45 PM	05:00	5.88 pH	23.22 °C	742.83 µS/cm	0.35 mg/L	0.73 NTU	116.4 mV	23.28 ft	150.00 ml/min
9/15/2022 1:50 PM	10:00	5.87 pH	22.66 °C	755.42 µS/cm	0.20 mg/L	0.72 NTU	116.2 mV	23.35 ft	150.00 ml/min
9/15/2022 1:55 PM	15:00	5.87 pH	22.48 °C	749.28 µS/cm	0.16 mg/L	0.53 NTU	115.8 mV	23.38 ft	150.00 ml/min
9/15/2022 2:00 PM	20:00	5.86 pH	21.78 °C	751.88 µS/cm	0.13 mg/L	0.57 NTU	116.4 mV	23.40 ft	150.00 ml/min
9/15/2022 2:05 PM	25:00	5.86 pH	21.81 °C	757.44 µS/cm	0.12 mg/L	0.95 NTU	116.0 mV	23.40 ft	150.00 ml/min

## Samples

Sample ID:	Description:
B-108D	
FB-6	

# Low-Flow Test Report:

Test Date / Time: 9/20/2022 1:48:31 PM

Project: Plant McDonough

Operator Name: Jude Waguespack

<b>Location Name: B-109D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 92.12 ft</b> <b>Total Depth: 102.12 ft</b> <b>Initial Depth to Water: 39.3 ft</b>	<b>Pump Type: dedicated bladder</b> <b>Tubing Type: LDPE</b> <b>Tubing Inner Diameter: 0.175 cm</b> <b>Tubing Length: 42 m</b> <b>Pump Intake From TOC: 97 ft</b> <b>Estimated Total Volume Pumped: 11250 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 250 ml/min</b> <b>Final Draw Down: 3.05 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 728541</b>
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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 %	+/- 2	+/- 1000 %	+/- 0.3	
9/20/2022 1:48 PM	00:00	7.06 pH	30.59 °C	326.87 µS/cm	4.56 mg/L	8.69 NTU	48.6 mV	39.30 ft	250.00 ml/min
9/20/2022 1:53 PM	05:00	6.30 pH	24.33 °C	427.58 µS/cm	1.03 mg/L	5.82 NTU	37.8 mV	40.35 ft	250.00 ml/min
9/20/2022 1:58 PM	10:00	6.35 pH	23.03 °C	430.73 µS/cm	0.73 mg/L	3.10 NTU	32.5 mV	41.00 ft	250.00 ml/min
9/20/2022 2:03 PM	15:00	6.38 pH	22.75 °C	434.14 µS/cm	0.72 mg/L	2.53 NTU	30.1 mV	41.25 ft	250.00 ml/min
9/20/2022 2:08 PM	20:00	6.40 pH	22.00 °C	437.36 µS/cm	0.84 mg/L	2.61 NTU	27.8 mV	41.80 ft	250.00 ml/min
9/20/2022 2:13 PM	25:00	6.38 pH	22.22 °C	436.62 µS/cm	0.86 mg/L	1.63 NTU	24.4 mV	42.20 ft	250.00 ml/min
9/20/2022 2:18 PM	30:00	6.40 pH	22.80 °C	436.85 µS/cm	0.97 mg/L	2.94 NTU	20.3 mV	42.20 ft	250.00 ml/min
9/20/2022 2:23 PM	35:00	6.39 pH	22.76 °C	442.15 µS/cm	1.12 mg/L	1.88 NTU	18.0 mV	42.20 ft	250.00 ml/min
9/20/2022 2:28 PM	40:00	6.37 pH	23.08 °C	445.92 µS/cm	1.28 mg/L	1.12 NTU	15.9 mV	42.30 ft	250.00 ml/min
9/20/2022 2:33 PM	45:00	6.38 pH	23.11 °C	441.61 µS/cm	1.32 mg/L	1.89 NTU	13.9 mV	42.35 ft	250.00 ml/min

## Samples

Sample ID:	Description:
B-109D	



# Low-Flow Test Report:

Test Date / Time: 9/14/2022 2:26:57 PM

Project: Plant McDonough

Operator Name: Jude Waguespack

<b>Location Name: B-111D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 74.2 ft</b> <b>Total Depth: 84.2 ft</b> <b>Initial Depth to Water: 12.6 ft</b>	<b>Pump Type: peristaltic</b> <b>Tubing Type: LDPE</b> <b>Tubing Inner Diameter: 0.175 cm</b> <b>Tubing Length: 42 m</b> <b>Pump Intake From TOC: 79 ft</b> <b>Estimated Total Volume Pumped: 11250 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 250 ml/min</b> <b>Final Draw Down: 2.05 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 728541</b>
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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 %	+/- 2	+/- 1000 %	+/- 0.3	
9/14/2022 2:26 PM	00:00	6.60 pH	22.83 °C	832.45 µS/cm	0.78 mg/L	2.11 NTU	56.6 mV	12.60 ft	250.00 ml/min
9/14/2022 2:31 PM	05:00	6.90 pH	19.95 °C	877.35 µS/cm	0.24 mg/L	1.65 NTU	18.6 mV	13.82 ft	250.00 ml/min
9/14/2022 2:36 PM	10:00	7.00 pH	19.59 °C	875.39 µS/cm	0.19 mg/L	1.10 NTU	-8.5 mV	14.10 ft	250.00 ml/min
9/14/2022 2:41 PM	15:00	7.47 pH	19.55 °C	923.53 µS/cm	0.15 mg/L	9.09 NTU	-67.8 mV	14.25 ft	250.00 ml/min
9/14/2022 2:46 PM	20:00	7.42 pH	19.63 °C	852.87 µS/cm	0.13 mg/L	7.44 NTU	-64.0 mV	14.45 ft	250.00 ml/min
9/14/2022 2:51 PM	25:00	7.28 pH	19.36 °C	804.65 µS/cm	0.13 mg/L	4.02 NTU	-57.3 mV	14.55 ft	250.00 ml/min
9/14/2022 2:56 PM	30:00	7.21 pH	19.15 °C	785.27 µS/cm	0.13 mg/L	3.56 NTU	-59.1 mV	14.65 ft	250.00 ml/min
9/14/2022 3:01 PM	35:00	7.16 pH	19.13 °C	754.98 µS/cm	0.13 mg/L	6.82 NTU	-49.6 mV	14.65 ft	250.00 ml/min
9/14/2022 3:06 PM	40:00	7.13 pH	19.19 °C	733.93 µS/cm	0.13 mg/L	2.35 NTU	-52.0 mV	14.65 ft	250.00 ml/min
9/14/2022 3:11 PM	45:00	7.09 pH	19.37 °C	729.46 µS/cm	0.12 mg/L	1.83 NTU	-44.7 mV	14.65 ft	250.00 ml/min

## Samples

Sample ID:	Description:
B-111D	

# Low-Flow Test Report:

Test Date / Time: 9/14/2022 2:36:04 PM

Project: Plant McDonough

Operator Name: M. Mann

<b>Location Name: B-115D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 70 ft</b> <b>Total Depth: 80 ft</b> <b>Initial Depth to Water: 20.88 ft</b>	<b>Pump Type: bladder</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 75 ft</b> <b>Estimated Total Volume Pumped: 6900 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 125 ml/min</b> <b>Final Draw Down: 2.52 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 851413</b>
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## Test Notes:

## Weather Conditions:

Sunny

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/14/2022 2:36 PM	00:00	4.95 pH	37.33 °C	706.53 µS/cm	4.72 mg/L	7.75 NTU	129.4 mV	20.88 ft	190.00 ml/min
9/14/2022 2:41 PM	05:00	5.46 pH	24.61 °C	1,019.0 µS/cm	0.72 mg/L	10.40 NTU	141.4 mV	22.72 ft	190.00 ml/min
9/14/2022 2:46 PM	10:00	5.66 pH	23.89 °C	1,041.0 µS/cm	0.45 mg/L	16.60 NTU	136.1 mV	23.34 ft	125.00 ml/min
9/14/2022 2:51 PM	15:00	5.89 pH	24.45 °C	1,049.7 µS/cm	0.45 mg/L	7.71 NTU	115.4 mV	23.38 ft	125.00 ml/min
9/14/2022 2:56 PM	20:00	6.00 pH	24.71 °C	998.26 µS/cm	0.41 mg/L	4.88 NTU	100.3 mV	23.42 ft	125.00 ml/min
9/14/2022 3:01 PM	25:00	6.02 pH	23.89 °C	941.93 µS/cm	0.35 mg/L	3.47 NTU	94.9 mV	23.37 ft	125.00 ml/min
9/14/2022 3:06 PM	30:00	5.97 pH	23.62 °C	887.92 µS/cm	0.32 mg/L	2.83 NTU	92.7 mV	23.41 ft	125.00 ml/min
9/14/2022 3:11 PM	35:00	5.91 pH	23.59 °C	853.59 µS/cm	0.30 mg/L	2.52 NTU	93.1 mV	23.42 ft	125.00 ml/min
9/14/2022 3:16 PM	40:00	5.85 pH	24.42 °C	820.69 µS/cm	0.27 mg/L	2.55 NTU	94.4 mV	23.42 ft	125.00 ml/min
9/14/2022 3:21 PM	45:00	5.80 pH	24.44 °C	805.98 µS/cm	0.25 mg/L	2.43 NTU	96.8 mV	23.41 ft	125.00 ml/min
9/14/2022 3:26 PM	50:00	5.76 pH	24.37 °C	800.22 µS/cm	0.25 mg/L	2.29 NTU	98.8 mV	23.40 ft	125.00 ml/min

## Samples

Sample ID:	Description:
B-115D	

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# Low-Flow Test Report:

Test Date / Time: 9/19/2022 2:33:20 PM

Project: Plant McDonough

Operator Name: Jude Waguespack

<b>Location Name: B-120D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 62.08 ft</b> <b>Total Depth: 72.08 ft</b> <b>Initial Depth to Water: 35.5 ft</b>	<b>Pump Type: bladder</b> <b>Tubing Type: LDPE</b> <b>Tubing Inner Diameter: 0.175 cm</b> <b>Tubing Length: 42 m</b> <b>Pump Intake From TOC: 67 ft</b> <b>Estimated Total Volume Pumped: 5604.167 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 250 ml/min</b> <b>Final Draw Down: 0 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 728541</b>
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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 %	+/- 2	+/- 1000 %	+/- 0.3	
9/19/2022 2:33 PM	00:00	6.03 pH	27.76 °C	545.14 µS/cm	4.10 mg/L	6.50 NTU	60.5 mV	35.50 ft	250.00 ml/min
9/19/2022 2:38 PM	05:00	5.27 pH	21.65 °C	1,016.5 µS/cm	0.62 mg/L	1.73 NTU	79.1 mV	35.50 ft	250.00 ml/min
9/19/2022 2:43 PM	10:00	5.23 pH	21.01 °C	1,028.1 µS/cm	0.39 mg/L	1.52 NTU	81.6 mV	35.50 ft	250.00 ml/min
9/19/2022 2:45 PM	12:25	5.22 pH	21.02 °C	1,073.6 µS/cm	0.35 mg/L	1.52 NTU	81.5 mV	35.50 ft	250.00 ml/min
9/19/2022 2:50 PM	17:25	5.22 pH	20.67 °C	1,027.1 µS/cm	0.29 mg/L	1.29 NTU	84.0 mV	35.50 ft	250.00 ml/min
9/19/2022 2:55 PM	22:25	5.21 pH	20.66 °C	1,025.2 µS/cm	0.26 mg/L	1.07 NTU	84.5 mV	35.50 ft	250.00 ml/min

## Samples

Sample ID:	Description:
B-120D	

# Low-Flow Test Report:

Test Date / Time: 9/9/2022 9:57:11 AM

Project: Plant McDonough (26)

Operator Name: Cole Mayer

<b>Location Name: B-62</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 29.62 ft</b> <b>Total Depth: 39.62 ft</b> <b>Initial Depth to Water: 15.52 ft</b>	<b>Pump Type: peristaltic</b> <b>Tubing Type: LDPE</b> <b>Pump Intake From TOC: 34 ft</b> <b>Estimated Total Volume Pumped: 9095 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 100 ml/min</b> <b>Final Draw Down: -0.01 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 884187</b>
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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	
9/9/2022 9:57 AM	00:00	6.78 pH	23.43 °C	509.32 µS/cm	4.36 mg/L	13.02 NTU	107.4 mV	15.58 ft	100.00 ml/min
9/9/2022 10:02 AM	05:00	6.48 pH	20.58 °C	505.34 µS/cm	0.44 mg/L	3.16 NTU	81.4 mV	15.61 ft	100.00 ml/min
9/9/2022 10:07 AM	10:00	6.48 pH	20.07 °C	491.81 µS/cm	0.26 mg/L	6.67 NTU	73.8 mV	15.61 ft	100.00 ml/min
9/9/2022 10:12 AM	15:00	6.38 pH	19.97 °C	398.62 µS/cm	0.19 mg/L	20.96 NTU	66.6 mV	15.62 ft	100.00 ml/min
9/9/2022 10:17 AM	20:00	6.36 pH	19.78 °C	375.78 µS/cm	0.17 mg/L	19.70 NTU	62.8 mV	15.62 ft	100.00 ml/min
9/9/2022 10:22 AM	25:00	6.30 pH	19.77 °C	334.58 µS/cm	0.17 mg/L	10.82 NTU	58.6 mV	15.62 ft	100.00 ml/min
9/9/2022 10:27 AM	30:00	6.26 pH	19.73 °C	305.81 µS/cm	0.19 mg/L	7.57 NTU	55.4 mV	15.61 ft	100.00 ml/min
9/9/2022 10:32 AM	35:00	6.24 pH	19.87 °C	294.79 µS/cm	0.20 mg/L	6.39 NTU	53.1 mV	15.60 ft	100.00 ml/min
9/9/2022 10:37 AM	40:00	6.23 pH	19.98 °C	284.80 µS/cm	0.21 mg/L	6.85 NTU	51.3 mV	15.60 ft	100.00 ml/min
9/9/2022 10:42 AM	45:00	6.23 pH	20.22 °C	281.88 µS/cm	0.25 mg/L	7.84 NTU	49.7 mV	15.59 ft	100.00 ml/min
9/9/2022 10:47 AM	50:00	6.22 pH	20.28 °C	280.42 µS/cm	0.17 mg/L	8.18 NTU	48.3 mV	15.58 ft	100.00 ml/min
9/9/2022 10:52 AM	55:00	6.23 pH	20.30 °C	277.68 µS/cm	0.16 mg/L	7.20 NTU	47.3 mV	15.57 ft	100.00 ml/min
9/9/2022 10:57 AM	01:00:00	6.23 pH	20.32 °C	275.94 µS/cm	0.16 mg/L	7.25 NTU	46.2 mV	15.56 ft	100.00 ml/min
9/9/2022 11:02 AM	01:05:00	6.22 pH	20.41 °C	274.68 µS/cm	0.15 mg/L	8.09 NTU	45.6 mV	15.55 ft	100.00 ml/min
9/9/2022 11:07 AM	01:10:00	6.23 pH	20.53 °C	274.55 µS/cm	0.16 mg/L	7.18 NTU	44.8 mV	15.54 ft	100.00 ml/min

9/9/2022 11:12 AM	01:15:00	6.23 pH	20.56 °C	272.70 µS/cm	0.16 mg/L	7.22 NTU	44.1 mV	15.54 ft	100.00 ml/min
9/9/2022 11:17 AM	01:20:00	6.22 pH	20.67 °C	271.88 µS/cm	0.13 mg/L	5.95 NTU	43.3 mV	15.54 ft	100.00 ml/min
9/9/2022 11:22 AM	01:25:00	6.22 pH	20.42 °C	271.27 µS/cm	0.12 mg/L	5.74 NTU	42.5 mV	15.52 ft	100.00 ml/min
9/9/2022 11:25 AM	01:30:00	6.22 pH	20.71 °C	270.15 µS/cm	0.12 mg/L	4.84 NTU	41.3 mV	15.51 ft	100.00 ml/min

## Samples

Sample ID:	Description:
B-62	

# Low-Flow Test Report:

Test Date / Time: 9/8/2022 10:00:04 AM

Project: Plant McDonough (24)

Operator Name: Cole Mayer

<b>Location Name: B-100</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 37.93 ft</b> <b>Total Depth: 47.93 ft</b> <b>Initial Depth to Water: 31.03 ft</b>	<b>Pump Type: Bladder</b> <b>Tubing Type: LDPE</b> <b>Pump Intake From TOC: 42 ft</b> <b>Estimated Total Volume Pumped: 7000 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 100 ml/min</b> <b>Final Draw Down: -0.09 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 884187</b>
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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	
9/8/2022 10:00 AM	00:00	5.23 pH	25.80 °C	0.67 µS/cm	3.82 mg/L	43.38 NTU	72.6 mV	31.04 ft	100.00 ml/min
9/8/2022 10:05 AM	05:00	5.16 pH	23.44 °C	0.80 µS/cm	0.63 mg/L	20.58 NTU	54.5 mV	31.03 ft	100.00 ml/min
9/8/2022 10:10 AM	10:00	5.17 pH	23.01 °C	0.81 µS/cm	0.37 mg/L	10.87 NTU	51.1 mV	31.02 ft	100.00 ml/min
9/8/2022 10:15 AM	15:00	5.18 pH	22.94 °C	0.81 µS/cm	0.28 mg/L	12.72 NTU	49.3 mV	31.01 ft	100.00 ml/min
9/8/2022 10:20 AM	20:00	5.19 pH	22.95 °C	0.82 µS/cm	0.20 mg/L	10.89 NTU	48.2 mV	31.03 ft	100.00 ml/min
9/8/2022 10:25 AM	25:00	5.20 pH	23.01 °C	0.82 µS/cm	0.20 mg/L	8.06 NTU	47.6 mV	30.99 ft	100.00 ml/min
9/8/2022 10:30 AM	30:00	5.21 pH	23.08 °C	0.82 µS/cm	0.15 mg/L	9.29 NTU	47.2 mV	30.99 ft	100.00 ml/min
9/8/2022 10:35 AM	35:00	5.21 pH	23.08 °C	0.82 µS/cm	0.14 mg/L	8.14 NTU	46.4 mV	30.99 ft	100.00 ml/min
9/8/2022 10:40 AM	40:00	5.22 pH	23.28 °C	0.83 µS/cm	0.13 mg/L	8.03 NTU	45.9 mV	30.99 ft	100.00 ml/min
9/8/2022 10:45 AM	45:00	5.22 pH	23.62 °C	0.82 µS/cm	0.15 mg/L	11.23 NTU	45.2 mV	30.94 ft	100.00 ml/min
9/8/2022 10:50 AM	50:00	5.23 pH	23.54 °C	0.82 µS/cm	0.14 mg/L	9.74 NTU	45.0 mV	30.94 ft	100.00 ml/min
9/8/2022 10:55 AM	55:00	5.23 pH	23.53 °C	0.83 µS/cm	0.13 mg/L	8.05 NTU	44.7 mV	30.96 ft	100.00 ml/min
9/8/2022 11:00 AM	01:00:00	5.24 pH	23.44 °C	0.83 µS/cm	0.12 mg/L	5.64 NTU	44.7 mV	30.94 ft	100.00 ml/min
9/8/2022 11:05 AM	01:05:00	5.24 pH	23.41 °C	0.83 µS/cm	0.12 mg/L	5.46 NTU	44.5 mV	30.96 ft	100.00 ml/min
9/8/2022 11:10 AM	01:10:00	5.24 pH	23.50 °C	0.83 µS/cm	0.10 mg/L	4.72 NTU	44.4 mV	30.94 ft	100.00 ml/min

**Samples**

Sample ID:	Description:
B100	



# Low-Flow Test Report:

Test Date / Time: 9/13/2022 9:09:37 AM

Project: SCS Plant McDonough

Operator Name: Duane Fulton

<b>Location Name: B-54</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 27.71 ft</b> <b>Total Depth: 37.71 ft</b> <b>Initial Depth to Water: 6.25 ft</b>	<b>Pump Type: Alexis Peri Pump</b> <b>Tubing Type: LDPE</b> <b>Pump Intake From TOC: 32 ft</b> <b>Estimated Total Volume Pumped: 4730 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 195 ml/min</b> <b>Final Draw Down: 0.1 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 883533</b>
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## Test Notes:

## Weather Conditions:

Clear, 67

## 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	
9/13/2022 9:09 AM	00:00	5.26 pH	19.55 °C	869.97 µS/cm	0.66 mg/L	2.84 NTU	130.2 mV	6.30 ft	166.00 ml/min
9/13/2022 9:14 AM	05:00	5.31 pH	20.15 °C	858.75 µS/cm	0.22 mg/L	2.60 NTU	131.2 mV	6.33 ft	195.00 ml/min
9/13/2022 9:19 AM	10:00	5.32 pH	19.95 °C	862.42 µS/cm	0.17 mg/L	0.87 NTU	167.7 mV	6.33 ft	195.00 ml/min
9/13/2022 9:24 AM	15:00	5.33 pH	19.95 °C	861.14 µS/cm	0.15 mg/L	0.68 NTU	123.8 mV	6.35 ft	195.00 ml/min
9/13/2022 9:29 AM	20:00	5.33 pH	19.92 °C	860.39 µS/cm	0.13 mg/L	0.41 NTU	115.1 mV	6.35 ft	195.00 ml/min
9/13/2022 9:34 AM	25:00	5.34 pH	19.92 °C	860.83 µS/cm	0.12 mg/L	0.17 NTU	110.4 mV	6.35 ft	195.00 ml/min

## Samples

Sample ID:	Description:
B-54	

# Low-Flow Test Report:

Test Date / Time: 9/14/2022 12:03:32 PM

Project: Plant McDonough

Operator Name: M. Mann

<b>Location Name: B-63</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 36 ft</b> <b>Total Depth: 46.15 ft</b> <b>Initial Depth to Water: 30.46 ft</b>	<b>Pump Type: bladder</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 41 ft</b> <b>Estimated Total Volume Pumped: 11681.667 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.92 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 851413</b>
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## Test Notes:

## Weather Conditions:

Sunny

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/14/2022 12:03 PM	00:00	5.80 pH	32.29 °C	283.55 µS/cm	2.10 mg/L	111.00 NTU	42.7 mV	30.46 ft	350.00 ml/min
9/14/2022 12:08 PM	04:50	5.33 pH	21.91 °C	334.46 µS/cm	0.20 mg/L	72.90 NTU	74.0 mV	31.35 ft	300.00 ml/min
9/14/2022 12:13 PM	09:50	5.34 pH	21.64 °C	339.74 µS/cm	0.31 mg/L	33.40 NTU	78.6 mV	31.29 ft	200.00 ml/min
9/14/2022 12:18 PM	14:50	5.33 pH	21.75 °C	334.56 µS/cm	0.49 mg/L	22.50 NTU	81.0 mV	31.29 ft	200.00 ml/min
9/14/2022 12:23 PM	19:50	5.32 pH	21.72 °C	333.13 µS/cm	0.46 mg/L	17.00 NTU	84.3 mV	31.27 ft	200.00 ml/min
9/14/2022 12:35 PM	32:17	5.34 pH	21.68 °C	331.12 µS/cm	0.43 mg/L	12.30 NTU	86.7 mV	31.32 ft	200.00 ml/min
9/14/2022 12:40 PM	37:17	5.35 pH	21.74 °C	333.36 µS/cm	0.43 mg/L	7.47 NTU	86.9 mV	31.34 ft	200.00 ml/min
9/14/2022 12:45 PM	42:17	5.33 pH	21.69 °C	331.22 µS/cm	0.44 mg/L	6.90 NTU	86.8 mV	31.37 ft	200.00 ml/min
9/14/2022 12:50 PM	47:17	5.33 pH	21.73 °C	334.89 µS/cm	0.41 mg/L	5.70 NTU	86.9 mV	31.38 ft	200.00 ml/min
9/14/2022 12:55 PM	52:17	5.31 pH	21.62 °C	331.42 µS/cm	0.39 mg/L	4.81 NTU	86.9 mV	31.38 ft	200.00 ml/min

## Samples

Sample ID:	Description:
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B-63	
FB-5	

Created using VuSitu from In-Situ, Inc.

# Low-Flow Test Report:

Test Date / Time: 9/13/2022 1:29:48 PM

Project: SCS Plant McDonough

Operator Name: Duane Fulton

<b>Location Name: B-64</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 20.48 ft</b> <b>Total Depth: 30.48 ft</b> <b>Initial Depth to Water: 6.65 ft</b>	<b>Pump Type: Alexis Peri Pump</b> <b>Tubing Type: LDPE</b> <b>Pump Intake From TOC: 25 ft</b> <b>Estimated Total Volume Pumped: 4500 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 100 ml/min</b> <b>Final Draw Down: 0.35 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 883533</b>
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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	
9/13/2022 1:29 PM	00:00	5.14 pH	25.15 °C	1,246.6 µS/cm	3.50 mg/L	4.07 NTU	248.5 mV	6.85 ft	200.00 ml/min
9/13/2022 1:34 PM	05:00	5.00 pH	21.67 °C	1,323.9 µS/cm	0.20 mg/L	1.57 NTU	495.3 mV	6.98 ft	100.00 ml/min
9/13/2022 1:39 PM	10:00	4.99 pH	21.42 °C	1,322.3 µS/cm	0.13 mg/L	0.73 NTU	557.7 mV	7.00 ft	100.00 ml/min
9/13/2022 1:44 PM	15:00	5.00 pH	21.33 °C	1,323.5 µS/cm	0.10 mg/L	0.77 NTU	502.6 mV	7.00 ft	100.00 ml/min
9/13/2022 1:49 PM	20:00	5.00 pH	21.19 °C	1,321.1 µS/cm	0.08 mg/L	0.76 NTU	503.9 mV	7.01 ft	100.00 ml/min
9/13/2022 1:54 PM	25:00	5.00 pH	21.13 °C	1,323.4 µS/cm	0.07 mg/L	0.75 NTU	503.4 mV	7.00 ft	100.00 ml/min
9/13/2022 1:59 PM	30:00	5.00 pH	21.10 °C	1,319.9 µS/cm	0.06 mg/L	0.78 NTU	502.1 mV	7.00 ft	100.00 ml/min
9/13/2022 2:04 PM	35:00	5.00 pH	21.11 °C	1,315.3 µS/cm	0.05 mg/L	0.75 NTU	501.4 mV	7.00 ft	100.00 ml/min
9/13/2022 2:09 PM	40:00	5.00 pH	21.01 °C	1,315.2 µS/cm	0.04 mg/L	0.75 NTU	500.5 mV	7.00 ft	100.00 ml/min

## Samples

Sample ID:	Description:
B-64	

# Low-Flow Test Report:

Test Date / Time: 9/16/2022 9:03:32 AM

Project: SCS Plant McDonough

Operator Name: Duane Fulton

<b>Location Name: B-66</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 47.99 ft</b> <b>Total Depth: 57.99 ft</b> <b>Initial Depth to Water: 21.74 ft</b>	<b>Pump Type: Alexis Peri Pump</b> <b>Tubing Type: LDPE</b> <b>Pump Intake From TOC: 52 ft</b> <b>Estimated Total Volume Pumped: 4060 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 55 ml/min</b> <b>Final Draw Down: 1.76 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 883533</b>
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## Test Notes:

## Weather Conditions:

Clear, 76

## 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	
9/16/2022 9:03 AM	00:00	6.65 pH	18.88 °C	781.83 µS/cm	4.12 mg/L	4.26 NTU	1.5 mV	22.01 ft	100.00 ml/min
9/16/2022 9:08 AM	05:00	6.58 pH	18.84 °C	795.39 µS/cm	0.75 mg/L	1.83 NTU	-19.5 mV	22.53 ft	85.00 ml/min
9/16/2022 9:13 AM	10:00	6.59 pH	18.94 °C	796.84 µS/cm	0.41 mg/L	1.14 NTU	-39.3 mV	22.80 ft	66.00 ml/min
9/16/2022 9:18 AM	15:00	6.59 pH	19.03 °C	796.70 µS/cm	0.32 mg/L	1.55 NTU	-24.4 mV	23.01 ft	66.00 ml/min
9/16/2022 9:23 AM	20:00	6.59 pH	19.16 °C	796.77 µS/cm	0.30 mg/L	1.79 NTU	-24.3 mV	23.13 ft	55.00 ml/min
9/16/2022 9:28 AM	25:00	6.59 pH	19.30 °C	794.25 µS/cm	0.29 mg/L	1.83 NTU	-23.8 mV	23.22 ft	55.00 ml/min
9/16/2022 9:33 AM	30:00	6.58 pH	19.37 °C	791.15 µS/cm	0.27 mg/L	1.78 NTU	-23.0 mV	23.30 ft	55.00 ml/min
9/16/2022 9:38 AM	35:00	6.57 pH	19.44 °C	788.89 µS/cm	0.29 mg/L	0.86 NTU	-21.2 mV	23.34 ft	55.00 ml/min
9/16/2022 9:43 AM	40:00	6.58 pH	19.52 °C	787.14 µS/cm	0.34 mg/L	1.87 NTU	-35.6 mV	23.40 ft	55.00 ml/min
9/16/2022 9:48 AM	45:00	6.58 pH	19.61 °C	787.64 µS/cm	0.42 mg/L	1.17 NTU	-18.7 mV	23.41 ft	55.00 ml/min
9/16/2022 9:53 AM	50:00	6.59 pH	19.70 °C	786.18 µS/cm	0.45 mg/L	1.05 NTU	-17.8 mV	23.45 ft	55.00 ml/min
9/16/2022 9:58 AM	55:00	6.59 pH	19.87 °C	788.28 µS/cm	0.49 mg/L	1.07 NTU	-32.1 mV	23.46 ft	55.00 ml/min
9/16/2022 10:03 AM	01:00:00	6.60 pH	19.95 °C	788.78 µS/cm	0.51 mg/L	1.05 NTU	-17.2 mV	23.48 ft	55.00 ml/min

9/16/2022 10:08 AM	01:05:00	6.60 pH	19.97 °C	788.53 µS/cm	0.52 mg/L	1.02 NTU	-30.5 mV	23.50 ft	55.00 ml/min
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### Samples

Sample ID:	Description:
B-66	

# Low-Flow Test Report:

Test Date / Time: 9/13/2022 9:14:25 AM

Project: Plant McDonough

Operator Name: M. Mann

<b>Location Name: B-76</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 28 ft</b> <b>Total Depth: 38.5 ft</b> <b>Initial Depth to Water: 15.45 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 33.5 ft</b> <b>Estimated Total Volume Pumped: 6850 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 120 ml/min</b> <b>Final Draw Down: 0.06 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 851413</b>
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## Test Notes:

## Weather Conditions:

Sunny

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/13/2022 9:14 AM	00:00	6.11 pH	20.66 °C	1,222.8 µS/cm	1.15 mg/L	85.20 NTU	83.2 mV	15.45 ft	150.00 ml/min
9/13/2022 9:19 AM	05:00	6.15 pH	20.84 °C	1,277.1 µS/cm	0.24 mg/L	38.50 NTU	70.3 mV	15.58 ft	200.00 ml/min
9/13/2022 9:24 AM	10:00	6.16 pH	21.15 °C	1,276.8 µS/cm	0.17 mg/L	14.30 NTU	61.3 mV	15.57 ft	200.00 ml/min
9/13/2022 9:29 AM	15:00	6.17 pH	21.26 °C	1,279.6 µS/cm	0.14 mg/L	5.52 NTU	56.1 mV	15.59 ft	200.00 ml/min
9/13/2022 9:34 AM	20:00	6.17 pH	21.33 °C	1,280.3 µS/cm	0.12 mg/L	9.09 NTU	53.3 mV	15.61 ft	200.00 ml/min
9/13/2022 9:39 AM	25:00	6.18 pH	21.37 °C	1,277.8 µS/cm	0.10 mg/L	6.04 NTU	50.5 mV	15.56 ft	150.00 ml/min
9/13/2022 9:44 AM	30:00	6.13 pH	21.11 °C	1,246.8 µS/cm	0.11 mg/L	6.88 NTU	48.9 mV	15.59 ft	150.00 ml/min
9/13/2022 9:49 AM	35:00	6.09 pH	21.15 °C	1,225.3 µS/cm	0.12 mg/L	5.11 NTU	49.1 mV	15.53 ft	120.00 ml/min
9/13/2022 9:54 AM	40:00	6.05 pH	21.31 °C	1,206.7 µS/cm	0.12 mg/L	2.51 NTU	49.1 mV	15.51 ft	120.00 ml/min

## Samples

Sample ID:	Description:
B-76	

# Low-Flow Test Report:

Test Date / Time: 9/13/2022 1:26:24 PM

Project: Plant McDonough

Operator Name: M. Mann

<b>Location Name: B-77</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 33 ft</b> <b>Total Depth: 43.46 ft</b> <b>Initial Depth to Water: 30.7 ft</b>	<b>Pump Type: bladder</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 38 ft</b> <b>Estimated Total Volume Pumped: 12875 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 2.22 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 851413</b>
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## Test Notes:

## Weather Conditions:

Sunny

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/13/2022 1:26 PM	00:00	6.12 pH	31.72 °C	301.01 µS/cm	2.47 mg/L	40.10 NTU	58.8 mV	30.70 ft	275.00 ml/min
9/13/2022 1:31 PM	05:00	6.36 pH	22.45 °C	323.88 µS/cm	0.18 mg/L	39.00 NTU	11.8 mV	31.75 ft	275.00 ml/min
9/13/2022 1:36 PM	10:00	6.39 pH	22.08 °C	322.42 µS/cm	0.13 mg/L	43.50 NTU	-5.4 mV	32.07 ft	275.00 ml/min
9/13/2022 1:41 PM	15:00	6.38 pH	22.82 °C	310.58 µS/cm	0.16 mg/L	31.40 NTU	-12.7 mV	31.99 ft	275.00 ml/min
9/13/2022 1:46 PM	20:00	6.35 pH	22.57 °C	292.32 µS/cm	0.09 mg/L	21.90 NTU	-13.2 mV	32.15 ft	275.00 ml/min
9/13/2022 1:51 PM	25:00	6.34 pH	21.87 °C	292.27 µS/cm	0.09 mg/L	28.30 NTU	-11.0 mV	32.39 ft	200.00 ml/min
9/13/2022 1:56 PM	30:00	6.32 pH	22.25 °C	289.74 µS/cm	0.08 mg/L	16.40 NTU	-12.6 mV	32.49 ft	200.00 ml/min
9/13/2022 2:01 PM	35:00	6.33 pH	22.29 °C	290.32 µS/cm	0.08 mg/L	12.60 NTU	-11.8 mV	32.61 ft	200.00 ml/min
9/13/2022 2:06 PM	40:00	6.33 pH	22.30 °C	289.81 µS/cm	0.07 mg/L	9.20 NTU	-13.5 mV	32.69 ft	200.00 ml/min
9/13/2022 2:11 PM	45:00	6.34 pH	22.30 °C	290.78 µS/cm	0.06 mg/L	7.17 NTU	-14.2 mV	32.78 ft	200.00 ml/min
9/13/2022 2:16 PM	50:00	6.33 pH	22.31 °C	292.30 µS/cm	0.06 mg/L	5.66 NTU	-14.9 mV	32.86 ft	200.00 ml/min
9/13/2022 2:21 PM	55:00	6.34 pH	22.29 °C	291.54 µS/cm	0.05 mg/L	4.94 NTU	-15.2 mV	32.92 ft	200.00 ml/min



**Samples**

Sample ID:	Description:
B-77	Extra Rad

# Low-Flow Test Report:

Test Date / Time: 9/13/2022 1:53:58 PM

Project: Plant McDonough

Operator Name: Jude Waguespack

<b>Location Name: B-78</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 21.7 ft</b> <b>Total Depth: 31.7 ft</b> <b>Initial Depth to Water: 11.6 ft</b>	<b>Pump Type: peristaltic</b> <b>Tubing Type: LDPE</b> <b>Tubing Inner Diameter: 0.175 cm</b> <b>Tubing Length: 42 m</b> <b>Pump Intake From TOC: 26 ft</b> <b>Estimated Total Volume Pumped: 5000 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 250 ml/min</b> <b>Final Draw Down: 0.15 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 728541</b>
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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 %	+/- 2	+/- 1000 %	+/- 0.3	
9/13/2022 1:53 PM	00:00	4.53 pH	23.26 °C	1,071.4 µS/cm	0.44 mg/L	0.85 NTU	499.8 mV	11.60 ft	250.00 ml/min
9/13/2022 1:58 PM	05:00	4.53 pH	20.27 °C	1,043.5 µS/cm	0.21 mg/L	0.66 NTU	565.5 mV	11.75 ft	250.00 ml/min
9/13/2022 2:03 PM	10:00	4.54 pH	20.04 °C	1,045.6 µS/cm	0.17 mg/L	0.77 NTU	505.2 mV	11.75 ft	250.00 ml/min
9/13/2022 2:08 PM	15:00	4.54 pH	19.90 °C	1,051.0 µS/cm	0.16 mg/L	1.07 NTU	567.1 mV	11.75 ft	250.00 ml/min
9/13/2022 2:13 PM	20:00	4.56 pH	19.81 °C	1,050.7 µS/cm	0.15 mg/L	0.79 NTU	505.6 mV	11.75 ft	250.00 ml/min

## Samples

Sample ID:	Description:
B-78	

# Low-Flow Test Report:

Test Date / Time: 9/12/2022 9:45:12 AM

Project: Plant McDonough

Operator Name: Jude Waguespack

<b>Location Name: B-79</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 26.38 ft</b> <b>Total Depth: 36.38 ft</b> <b>Initial Depth to Water: 7.7 ft</b>	<b>Pump Type: peristaltic</b> <b>Tubing Type: LDPE</b> <b>Tubing Inner Diameter: 0.175 cm</b> <b>Tubing Length: 42 m</b> <b>Pump Intake From TOC: 31 ft</b> <b>Estimated Total Volume Pumped: 5004.167 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 250 ml/min</b> <b>Final Draw Down: 0.75 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 728541</b>
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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 %	+/- 2	+/- 1000 %	+/- 0.3	
9/12/2022 9:45 AM	00:00	7.29 pH	24.80 °C	0.00 µS/cm	8.14 mg/L	3.53 NTU	132.7 mV	7.70 ft	250.00 ml/min
9/12/2022 9:50 AM	05:00	4.86 pH	21.47 °C	0.50 µS/cm	0.71 mg/L	7.79 NTU	133.5 mV	8.30 ft	250.00 ml/min
9/12/2022 9:54 AM	09:42	4.88 pH	20.62 °C	0.51 µS/cm	0.34 mg/L		143.9 mV	8.30 ft	250.00 ml/min
9/12/2022 9:55 AM	10:01	4.88 pH	20.58 °C	0.51 µS/cm	0.33 mg/L	2.10 NTU	143.6 mV	8.35 ft	250.00 ml/min
9/12/2022 10:00 AM	15:01	4.89 pH	20.51 °C	0.52 µS/cm	0.25 mg/L	0.94 NTU	123.4 mV	8.39 ft	250.00 ml/min
9/12/2022 10:05 AM	20:01	4.92 pH	20.52 °C	0.53 µS/cm	0.22 mg/L	0.62 NTU	119.7 mV	8.45 ft	250.00 ml/min

## Samples

Sample ID:	Description:
B-79	

# Low-Flow Test Report:

Test Date / Time: 9/16/2022 11:32:15 AM

Project: SCS Plant McDonough

Operator Name: Duane Fulton

<b>Location Name: B-82</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 37.65 ft</b> <b>Total Depth: 47.65 ft</b> <b>Initial Depth to Water: 18.96 ft</b>	<b>Pump Type: Alexis Peri Pump</b> <b>Tubing Type: LDPE</b> <b>Pump Intake From TOC: 42 ft</b> <b>Estimated Total Volume Pumped: 3125 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 75 ml/min</b> <b>Final Draw Down: 0.66 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 883533</b>
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## Test Notes:

## Weather Conditions:

Clear, 77

## 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	
9/16/2022 11:32 AM	00:00	5.74 pH	28.31 °C	776.27 µS/cm	3.95 mg/L	3.77 NTU	121.6 mV	19.17 ft	100.00 ml/min
9/16/2022 11:37 AM	05:00	5.08 pH	22.88 °C	830.02 µS/cm	0.75 mg/L	3.65 NTU	233.7 mV	19.49 ft	75.00 ml/min
9/16/2022 11:42 AM	10:00	5.05 pH	22.48 °C	829.67 µS/cm	0.59 mg/L	4.14 NTU	165.1 mV	19.55 ft	75.00 ml/min
9/16/2022 11:47 AM	15:00	5.04 pH	22.29 °C	834.81 µS/cm	0.54 mg/L	2.45 NTU	209.2 mV	19.60 ft	75.00 ml/min
9/16/2022 11:52 AM	20:00	5.04 pH	22.15 °C	831.99 µS/cm	0.50 mg/L	2.27 NTU	150.4 mV	19.62 ft	75.00 ml/min
9/16/2022 11:57 AM	25:00	5.04 pH	22.23 °C	833.79 µS/cm	0.48 mg/L	2.15 NTU	188.8 mV	19.62 ft	75.00 ml/min
9/16/2022 12:02 PM	30:00	5.03 pH	22.55 °C	831.19 µS/cm	0.47 mg/L	1.82 NTU	141.3 mV	19.62 ft	75.00 ml/min
9/16/2022 12:07 PM	35:00	5.02 pH	22.54 °C	826.34 µS/cm	0.46 mg/L	2.01 NTU	132.3 mV	19.62 ft	75.00 ml/min
9/16/2022 12:12 PM	40:00	5.02 pH	22.36 °C	829.57 µS/cm	0.43 mg/L	2.23 NTU	169.7 mV	19.62 ft	75.00 ml/min

## Samples

Sample ID:	Description:
B-82	

# Low-Flow Test Report:

Test Date / Time: 9/16/2022 10:29:35 AM

Project: Plant McDonough

Operator Name: M. Mann

<b>Location Name: B-88</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 65 ft</b> <b>Total Depth: 75.06 ft</b> <b>Initial Depth to Water: 37.8 ft</b>	<b>Pump Type: bladder</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 70 ft</b> <b>Estimated Total Volume Pumped: 3000 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.1 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 851413</b>
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## Test Notes:

## Weather Conditions:

Sunny

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/16/2022 10:29 AM	00:00	6.17 pH	22.94 °C	815.44 µS/cm	4.12 mg/L	4.10 NTU	107.5 mV	37.80 ft	200.00 ml/min
9/16/2022 10:34 AM	05:00	5.49 pH	18.96 °C	967.19 µS/cm	0.45 mg/L	3.71 NTU	115.6 mV	37.88 ft	200.00 ml/min
9/16/2022 10:39 AM	10:00	5.46 pH	18.72 °C	977.78 µS/cm	0.47 mg/L	2.78 NTU	120.3 mV	37.91 ft	200.00 ml/min
9/16/2022 10:44 AM	15:00	5.47 pH	18.77 °C	979.56 µS/cm	0.52 mg/L	2.40 NTU	121.4 mV	37.90 ft	200.00 ml/min

## Samples

Sample ID:	Description:
B-88	

# Low-Flow Test Report:

Test Date / Time: 9/9/2022 9:57:11 AM

Project: Plant McDonough (26)

Operator Name: Cole Mayer

<b>Location Name: B-62</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 29.62 ft</b> <b>Total Depth: 39.62 ft</b> <b>Initial Depth to Water: 15.52 ft</b>	<b>Pump Type: peristaltic</b> <b>Tubing Type: LDPE</b> <b>Pump Intake From TOC: 34 ft</b> <b>Estimated Total Volume Pumped: 9095 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 100 ml/min</b> <b>Final Draw Down: -0.01 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 884187</b>
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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	
9/9/2022 9:57 AM	00:00	6.78 pH	23.43 °C	509.32 µS/cm	4.36 mg/L	13.02 NTU	107.4 mV	15.58 ft	100.00 ml/min
9/9/2022 10:02 AM	05:00	6.48 pH	20.58 °C	505.34 µS/cm	0.44 mg/L	3.16 NTU	81.4 mV	15.61 ft	100.00 ml/min
9/9/2022 10:07 AM	10:00	6.48 pH	20.07 °C	491.81 µS/cm	0.26 mg/L	6.67 NTU	73.8 mV	15.61 ft	100.00 ml/min
9/9/2022 10:12 AM	15:00	6.38 pH	19.97 °C	398.62 µS/cm	0.19 mg/L	20.96 NTU	66.6 mV	15.62 ft	100.00 ml/min
9/9/2022 10:17 AM	20:00	6.36 pH	19.78 °C	375.78 µS/cm	0.17 mg/L	19.70 NTU	62.8 mV	15.62 ft	100.00 ml/min
9/9/2022 10:22 AM	25:00	6.30 pH	19.77 °C	334.58 µS/cm	0.17 mg/L	10.82 NTU	58.6 mV	15.62 ft	100.00 ml/min
9/9/2022 10:27 AM	30:00	6.26 pH	19.73 °C	305.81 µS/cm	0.19 mg/L	7.57 NTU	55.4 mV	15.61 ft	100.00 ml/min
9/9/2022 10:32 AM	35:00	6.24 pH	19.87 °C	294.79 µS/cm	0.20 mg/L	6.39 NTU	53.1 mV	15.60 ft	100.00 ml/min
9/9/2022 10:37 AM	40:00	6.23 pH	19.98 °C	284.80 µS/cm	0.21 mg/L	6.85 NTU	51.3 mV	15.60 ft	100.00 ml/min
9/9/2022 10:42 AM	45:00	6.23 pH	20.22 °C	281.88 µS/cm	0.25 mg/L	7.84 NTU	49.7 mV	15.59 ft	100.00 ml/min
9/9/2022 10:47 AM	50:00	6.22 pH	20.28 °C	280.42 µS/cm	0.17 mg/L	8.18 NTU	48.3 mV	15.58 ft	100.00 ml/min
9/9/2022 10:52 AM	55:00	6.23 pH	20.30 °C	277.68 µS/cm	0.16 mg/L	7.20 NTU	47.3 mV	15.57 ft	100.00 ml/min
9/9/2022 10:57 AM	01:00:00	6.23 pH	20.32 °C	275.94 µS/cm	0.16 mg/L	7.25 NTU	46.2 mV	15.56 ft	100.00 ml/min
9/9/2022 11:02 AM	01:05:00	6.22 pH	20.41 °C	274.68 µS/cm	0.15 mg/L	8.09 NTU	45.6 mV	15.55 ft	100.00 ml/min
9/9/2022 11:07 AM	01:10:00	6.23 pH	20.53 °C	274.55 µS/cm	0.16 mg/L	7.18 NTU	44.8 mV	15.54 ft	100.00 ml/min

9/9/2022 11:12 AM	01:15:00	6.23 pH	20.56 °C	272.70 µS/cm	0.16 mg/L	7.22 NTU	44.1 mV	15.54 ft	100.00 ml/min
9/9/2022 11:17 AM	01:20:00	6.22 pH	20.67 °C	271.88 µS/cm	0.13 mg/L	5.95 NTU	43.3 mV	15.54 ft	100.00 ml/min
9/9/2022 11:22 AM	01:25:00	6.22 pH	20.42 °C	271.27 µS/cm	0.12 mg/L	5.74 NTU	42.5 mV	15.52 ft	100.00 ml/min
9/9/2022 11:25 AM	01:30:00	6.22 pH	20.71 °C	270.15 µS/cm	0.12 mg/L	4.84 NTU	41.3 mV	15.51 ft	100.00 ml/min

## Samples

Sample ID:	Description:
B-62	

# Low-Flow Test Report:

Test Date / Time: 9/9/2022 10:14:14 AM

Project: Plant McDonough

Operator Name: Jude Waguespack

<b>Location Name: B-68</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 8.03 ft</b> <b>Total Depth: 18.03 ft</b> <b>Initial Depth to Water: 4.25 ft</b>	<b>Pump Type: peristaltic</b> <b>Tubing Type: LDPE</b> <b>Tubing Inner Diameter: 0.175 cm</b> <b>Tubing Length: 42 m</b> <b>Pump Intake From TOC: 13 ft</b> <b>Estimated Total Volume Pumped: 7500 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 250 ml/min</b> <b>Final Draw Down: 0.45 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 728541</b>
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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 %	+/- 2	+/- 1000 %	+/- 0.3	
9/9/2022 10:14 AM	00:00	6.26 pH	23.85 °C	0.47 µS/cm	3.83 mg/L	207.00 NTU	32.8 mV	4.25 ft	250.00 ml/min
9/9/2022 10:19 AM	05:00	6.52 pH	19.59 °C	0.49 µS/cm	0.15 mg/L	48.50 NTU	-12.1 mV	4.70 ft	250.00 ml/min
9/9/2022 10:24 AM	10:00	6.56 pH	18.96 °C	0.49 µS/cm	0.10 mg/L	26.00 NTU	-29.5 mV	4.70 ft	250.00 ml/min
9/9/2022 10:29 AM	15:00	6.59 pH	18.88 °C	0.49 µS/cm	0.09 mg/L	14.60 NTU	-28.5 mV	4.70 ft	250.00 ml/min
9/9/2022 10:34 AM	20:00	6.61 pH	19.18 °C	0.49 µS/cm	0.07 mg/L	11.80 NTU	-38.3 mV	4.70 ft	250.00 ml/min
9/9/2022 10:39 AM	25:00	6.62 pH	19.19 °C	0.49 µS/cm	0.07 mg/L	7.90 NTU	-31.8 mV	4.70 ft	250.00 ml/min
9/9/2022 10:44 AM	30:00	6.64 pH	19.09 °C	0.49 µS/cm	0.07 mg/L	4.71 NTU	-40.4 mV	4.70 ft	250.00 ml/min

## Samples

Sample ID:	Description:
B-68	



# Low-Flow Test Report:

Test Date / Time: 9/8/2022 2:18:20 PM

Project: SCS Plant McDonough

Operator Name: Duane Fulton

<b>Location Name: B-73</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 5.9 ft</b> <b>Total Depth: 15.9 ft</b> <b>Initial Depth to Water: 4.61 ft</b>	<b>Pump Type: Alexis Peri Pump</b> <b>Tubing Type: LDPE</b> <b>Pump Intake From TOC: 10 ft</b> <b>Estimated Total Volume Pumped: 3350 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 100 ml/min</b> <b>Final Draw Down: 0.25 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 883533</b>
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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	
9/8/2022 2:18 PM	00:00	6.79 pH	27.91 °C	399.50 µS/cm	2.67 mg/L	5.48 NTU	36.0 mV	4.75 ft	90.00 ml/min
9/8/2022 2:23 PM	05:00	6.62 pH	22.57 °C	426.42 µS/cm	0.21 mg/L	2.90 NTU	47.1 mV	4.75 ft	90.00 ml/min
9/8/2022 2:28 PM	10:00	6.63 pH	22.18 °C	428.80 µS/cm	0.14 mg/L	0.99 NTU	47.3 mV	4.83 ft	90.00 ml/min
9/8/2022 2:33 PM	15:00	6.63 pH	21.86 °C	429.63 µS/cm	0.12 mg/L	2.04 NTU	54.9 mV	4.85 ft	100.00 ml/min
9/8/2022 2:38 PM	20:00	6.63 pH	21.78 °C	430.65 µS/cm	0.11 mg/L	1.20 NTU	48.2 mV	4.85 ft	100.00 ml/min
9/8/2022 2:43 PM	25:00	6.63 pH	21.73 °C	430.03 µS/cm	0.10 mg/L	0.72 NTU	56.2 mV	4.86 ft	100.00 ml/min
9/8/2022 2:48 PM	30:00	6.63 pH	21.77 °C	430.02 µS/cm	0.09 mg/L	0.30 NTU	48.6 mV	4.85 ft	100.00 ml/min
9/8/2022 2:53 PM	35:00	6.63 pH	21.73 °C	429.75 µS/cm	0.10 mg/L	0.35 NTU	56.7 mV	4.86 ft	100.00 ml/min

## Samples

Sample ID:	Description:
B-73	

# Low-Flow Test Report:

Test Date / Time: 9/14/2022 10:42:16 AM

Project: Plant McDonough

Operator Name: Jude Waguespack

<b>Location Name: B-74</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 6.3 ft</b> <b>Total Depth: 16.3 ft</b> <b>Initial Depth to Water: 4.53 ft</b>	<b>Pump Type: peristaltic</b> <b>Tubing Type: LDPE</b> <b>Tubing Inner Diameter: 0.175 cm</b> <b>Tubing Length: 42 m</b> <b>Pump Intake From TOC: 11 ft</b> <b>Estimated Total Volume Pumped: 5000 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 250 ml/min</b> <b>Final Draw Down: 1.12 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 728541</b>
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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 %	+/- 2	+/- 1000 %	+/- 0.3	
9/14/2022 10:42 AM	00:00	6.02 pH	21.47 °C	140.12 µS/cm	0.32 mg/L	0.61 NTU	127.4 mV	4.53 ft	250.00 ml/min
9/14/2022 10:47 AM	05:00	6.02 pH	19.80 °C	151.20 µS/cm	0.16 mg/L	1.34 NTU	119.4 mV	5.54 ft	250.00 ml/min
9/14/2022 10:52 AM	10:00	6.02 pH	19.52 °C	153.69 µS/cm	0.14 mg/L	1.18 NTU	113.0 mV	5.64 ft	250.00 ml/min
9/14/2022 10:57 AM	15:00	6.00 pH	19.43 °C	155.18 µS/cm	0.13 mg/L	0.63 NTU	106.8 mV	5.65 ft	250.00 ml/min
9/14/2022 11:02 AM	20:00	6.01 pH	19.40 °C	157.41 µS/cm	0.14 mg/L	0.49 NTU	102.7 mV	5.65 ft	250.00 ml/min

## Samples

Sample ID:	Description:
B-74	

# Low-Flow Test Report:

Test Date / Time: 9/12/2022 11:30:12 AM

Project: Plant McDonough

Operator Name: Jude Waguespack

<b>Location Name: B-90</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 23.4 ft</b> <b>Total Depth: 33.4 ft</b> <b>Initial Depth to Water: 2.55 ft</b>	<b>Pump Type: peristaltic</b> <b>Tubing Type: LDPE</b> <b>Tubing Inner Diameter: 0.175 cm</b> <b>Tubing Length: 42 m</b> <b>Pump Intake From TOC: 28 ft</b> <b>Estimated Total Volume Pumped: 11250 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 250 ml/min</b> <b>Final Draw Down: 1.25 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 728541</b>
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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 %	+/- 2	+/- 1000 %	+/- 0.3	
9/12/2022 11:30 AM	00:00	5.28 pH	22.17 °C	872.60 µS/cm	0.33 mg/L	8.61 NTU	81.3 mV	2.55 ft	250.00 ml/min
9/12/2022 11:35 AM	05:00	5.27 pH	20.24 °C	870.12 µS/cm	0.22 mg/L	7.22 NTU	78.1 mV	3.60 ft	250.00 ml/min
9/12/2022 11:40 AM	10:00	5.28 pH	19.90 °C	869.47 µS/cm	0.18 mg/L	5.00 NTU	76.9 mV	3.70 ft	250.00 ml/min
9/12/2022 11:45 AM	15:00	5.30 pH	19.78 °C	858.57 µS/cm	0.18 mg/L	3.04 NTU	77.7 mV	3.80 ft	250.00 ml/min
9/12/2022 11:50 AM	20:00	5.31 pH	19.86 °C	854.28 µS/cm	0.12 mg/L	3.03 NTU	77.5 mV	3.80 ft	250.00 ml/min
9/12/2022 11:55 AM	25:00	5.32 pH	19.73 °C	849.31 µS/cm	0.22 mg/L	2.71 NTU	75.6 mV	3.80 ft	250.00 ml/min
9/12/2022 12:00 PM	30:00	5.32 pH	19.70 °C	841.62 µS/cm	0.20 mg/L	2.73 NTU	77.0 mV	3.80 ft	250.00 ml/min
9/12/2022 12:05 PM	35:00	5.34 pH	19.72 °C	836.03 µS/cm	0.15 mg/L	2.82 NTU	76.7 mV	3.80 ft	250.00 ml/min
9/12/2022 12:10 PM	40:00	5.33 pH	20.06 °C	837.83 µS/cm	0.19 mg/L	2.21 NTU	74.8 mV	3.80 ft	250.00 ml/min
9/12/2022 12:15 PM	45:00	5.35 pH	19.98 °C	829.87 µS/cm	0.10 mg/L	1.13 NTU	76.4 mV	3.80 ft	250.00 ml/min

## Samples

Sample ID:	Description:
B-90	

# Low-Flow Test Report:

Test Date / Time: 9/12/2022 12:46:24 PM

Project: Plant McDonough

Operator Name: Jude Waguespack

<b>Location Name: B-91</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 24.6 ft</b> <b>Total Depth: 34.6 ft</b> <b>Initial Depth to Water: 4.05 ft</b>	<b>Pump Type: peristaltic</b> <b>Tubing Type: LDPE</b> <b>Tubing Inner Diameter: 0.175 cm</b> <b>Tubing Length: 42 m</b> <b>Pump Intake From TOC: 29 ft</b> <b>Estimated Total Volume Pumped: 10000 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 250 ml/min</b> <b>Final Draw Down: 0.5 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 728541</b>
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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 %	+/- 2	+/- 1000 %	+/- 0.3	
9/12/2022 12:46 PM	00:00	5.32 pH	24.66 °C	861.55 µS/cm	0.51 mg/L	5.27 NTU	85.0 mV	4.05 ft	250.00 ml/min
9/12/2022 12:51 PM	05:00	5.30 pH	20.93 °C	897.36 µS/cm	0.17 mg/L	20.02 NTU	87.5 mV	4.50 ft	250.00 ml/min
9/12/2022 12:56 PM	10:00	5.29 pH	20.53 °C	900.37 µS/cm	0.14 mg/L	25.40 NTU	87.5 mV	4.50 ft	250.00 ml/min
9/12/2022 1:01 PM	15:00	5.28 pH	21.00 °C	906.97 µS/cm	0.12 mg/L	9.29 NTU	84.6 mV	4.50 ft	250.00 ml/min
9/12/2022 1:06 PM	20:00	5.28 pH	20.89 °C	901.43 µS/cm	0.11 mg/L	4.13 NTU	87.9 mV	4.55 ft	250.00 ml/min
9/12/2022 1:11 PM	25:00	5.27 pH	20.97 °C	901.61 µS/cm	0.11 mg/L	3.20 NTU	85.3 mV	4.55 ft	250.00 ml/min
9/12/2022 1:16 PM	30:00	5.27 pH	20.75 °C	896.67 µS/cm	0.10 mg/L	3.21 NTU	89.2 mV	4.55 ft	250.00 ml/min
9/12/2022 1:21 PM	35:00	5.28 pH	20.87 °C	893.83 µS/cm	0.09 mg/L	1.62 NTU	86.7 mV	4.55 ft	250.00 ml/min
9/12/2022 1:26 PM	40:00	5.28 pH	20.93 °C	895.66 µS/cm	0.09 mg/L	1.02 NTU	90.8 mV	4.55 ft	250.00 ml/min

## Samples

Sample ID:	Description:
B-91	

# Low-Flow Test Report:

Test Date / Time: 9/12/2022 2:03:34 PM

Project: Plant McDonough

Operator Name: Jude Waguespack

<b>Location Name: B-95</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 25.16 ft</b> <b>Total Depth: 35.16 ft</b> <b>Initial Depth to Water: 2.61 ft</b>	<b>Pump Type: peristaltic</b> <b>Tubing Type: LDPE</b> <b>Tubing Inner Diameter: 0.175 cm</b> <b>Tubing Length: 42 m</b> <b>Pump Intake From TOC: 30 ft</b> <b>Estimated Total Volume Pumped: 8750 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 250 ml/min</b> <b>Final Draw Down: 1.19 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 728541</b>
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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 %	+/- 2	+/- 1000 %	+/- 0.3	
9/12/2022 2:03 PM	00:00	5.34 pH	26.03 °C	547.22 µS/cm	1.02 mg/L	21.90 NTU	101.6 mV	2.61 ft	250.00 ml/min
9/12/2022 2:08 PM	05:00	5.32 pH	22.62 °C	579.09 µS/cm	0.19 mg/L	24.90 NTU	106.5 mV	3.65 ft	250.00 ml/min
9/12/2022 2:13 PM	10:00	5.32 pH	22.67 °C	571.69 µS/cm	0.14 mg/L	7.62 NTU	106.2 mV	3.70 ft	250.00 ml/min
9/12/2022 2:18 PM	15:00	5.33 pH	22.91 °C	570.70 µS/cm	0.13 mg/L	4.08 NTU	100.0 mV	3.80 ft	250.00 ml/min
9/12/2022 2:23 PM	20:00	5.33 pH	22.76 °C	556.31 µS/cm	0.13 mg/L	3.20 NTU	105.6 mV	3.80 ft	250.00 ml/min
9/12/2022 2:28 PM	25:00	5.33 pH	22.76 °C	550.96 µS/cm	0.15 mg/L	2.40 NTU	100.1 mV	3.80 ft	250.00 ml/min
9/12/2022 2:33 PM	30:00	5.33 pH	22.28 °C	551.67 µS/cm	0.15 mg/L	2.36 NTU	107.0 mV	3.80 ft	250.00 ml/min
9/12/2022 2:38 PM	35:00	5.33 pH	22.11 °C	555.26 µS/cm	0.15 mg/L	1.45 NTU	107.6 mV	3.80 ft	250.00 ml/min

## Samples

Sample ID:	Description:
B-95	

# Low-Flow Test Report:

Test Date / Time: 9/13/2022 10:41:19 AM

Project: Plant McDonough

Operator Name: Jude Waguespack

<b>Location Name: B-96</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 22.33 ft</b> <b>Total Depth: 32.33 ft</b> <b>Initial Depth to Water: 6.4 ft</b>	<b>Pump Type: peristaltic</b> <b>Tubing Type: LDPE</b> <b>Tubing Inner Diameter: 0.175 cm</b> <b>Tubing Length: 42 m</b> <b>Pump Intake From TOC: 27 ft</b> <b>Estimated Total Volume Pumped: 13204.167 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 250 ml/min</b> <b>Final Draw Down: 0.33 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 728541</b>
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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 %	+/- 2	+/- 1000 %	+/- 0.3	
9/13/2022 10:41 AM	00:00	5.24 pH	21.49 °C	1,046.7 µS/cm	1.81 mg/L	121.00 NTU	218.7 mV	6.40 ft	250.00 ml/min
9/13/2022 10:46 AM	05:00	5.03 pH	20.40 °C	1,047.0 µS/cm	0.17 mg/L	83.50 NTU	405.4 mV	6.60 ft	250.00 ml/min
9/13/2022 10:51 AM	10:00	5.02 pH	20.26 °C	1,037.0 µS/cm	0.13 mg/L	35.20 NTU	528.3 mV	6.60 ft	250.00 ml/min
9/13/2022 10:56 AM	15:00	5.03 pH	20.22 °C	1,035.9 µS/cm	0.11 mg/L	12.20 NTU	539.5 mV	6.75 ft	250.00 ml/min
9/13/2022 10:57 AM	16:31	5.03 pH	20.17 °C	1,102.3 µS/cm	0.11 mg/L	12.20 NTU	451.8 mV	6.75 ft	250.00 ml/min
9/13/2022 11:02 AM	21:31	5.03 pH	20.14 °C	1,040.8 µS/cm	0.09 mg/L	8.72 NTU	437.8 mV	6.70 ft	250.00 ml/min
9/13/2022 11:04 AM	22:49	5.03 pH	20.13 °C	1,085.3 µS/cm	0.09 mg/L	8.72 NTU	449.1 mV	6.70 ft	250.00 ml/min
9/13/2022 11:09 AM	27:49	5.03 pH	20.13 °C	1,040.7 µS/cm	0.09 mg/L	4.95 NTU	454.3 mV	6.70 ft	250.00 ml/min
9/13/2022 11:14 AM	32:49	5.03 pH	20.13 °C	1,033.2 µS/cm	0.10 mg/L	4.12 NTU	453.5 mV	6.73 ft	250.00 ml/min
9/13/2022 11:19 AM	37:49	5.02 pH	20.16 °C	1,034.4 µS/cm	0.09 mg/L	1.79 NTU	550.8 mV	6.73 ft	250.00 ml/min
9/13/2022 11:24 AM	42:49	5.03 pH	20.10 °C	1,033.9 µS/cm	0.09 mg/L	1.71 NTU	456.6 mV	6.73 ft	250.00 ml/min
9/13/2022 11:29 AM	47:49	5.03 pH	20.17 °C	1,033.3 µS/cm	0.08 mg/L	1.35 NTU	456.2 mV	6.73 ft	250.00 ml/min
9/13/2022 11:34 AM	52:49	5.03 pH	20.16 °C	1,033.9 µS/cm	0.09 mg/L	0.94 NTU	552.6 mV	6.73 ft	250.00 ml/min

**Samples**

Sample ID:	Description:
B-96	

# Low-Flow Test Report:

Test Date / Time: 9/12/2022 9:43:26 AM

Project: SCS Plant McDonough

Operator Name: Duane Fulton

<b>Location Name: B-99</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 5 ft</b> <b>Top of Screen: 6.93 ft</b> <b>Total Depth: 11.93 ft</b> <b>Initial Depth to Water: 4 ft</b>	<b>Pump Type: Alexis Peri Pump</b> <b>Tubing Type: LDPE</b> <b>Pump Intake From TOC: 8 ft</b> <b>Estimated Total Volume Pumped: 3475 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 85 ml/min</b> <b>Final Draw Down: 0.2 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 883533</b>
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## Test Notes:

## Weather Conditions:

Cloudy, 70

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/12/2022 9:43 AM	00:00	5.79 pH	23.72 °C	737.06 µS/cm	3.88 mg/L	47.70 NTU	60.9 mV	4.14 ft	100.00 ml/min
9/12/2022 9:48 AM	05:00	5.75 pH	23.02 °C	757.13 µS/cm	0.50 mg/L	21.10 NTU	43.7 mV	4.20 ft	85.00 ml/min
9/12/2022 9:53 AM	10:00	5.75 pH	22.94 °C	756.31 µS/cm	0.32 mg/L	13.80 NTU	46.0 mV	4.20 ft	85.00 ml/min
9/12/2022 9:58 AM	15:00	5.75 pH	23.18 °C	747.49 µS/cm	0.31 mg/L	11.95 NTU	41.8 mV	4.20 ft	85.00 ml/min
9/12/2022 10:03 AM	20:00	5.74 pH	23.34 °C	739.33 µS/cm	0.28 mg/L	7.00 NTU	43.1 mV	4.20 ft	85.00 ml/min
9/12/2022 10:08 AM	25:00	5.72 pH	23.66 °C	732.77 µS/cm	0.24 mg/L	6.20 NTU	45.1 mV	4.20 ft	85.00 ml/min
9/12/2022 10:13 AM	30:00	5.71 pH	23.45 °C	729.37 µS/cm	0.21 mg/L	5.65 NTU	46.8 mV	4.20 ft	85.00 ml/min
9/12/2022 10:18 AM	35:00	5.71 pH	23.20 °C	730.80 µS/cm	0.20 mg/L	3.97 NTU	46.8 mV	4.20 ft	85.00 ml/min
9/12/2022 10:23 AM	40:00	5.71 pH	23.52 °C	727.49 µS/cm	0.19 mg/L	3.79 NTU	47.1 mV	4.20 ft	85.00 ml/min

## Samples

Sample ID:	Description:
B-99	



# Low-Flow Test Report:

Test Date / Time: 9/8/2022 12:27:16 PM

Project: Plant Scherer (4)

Operator Name: Mark Mann

<b>Location Name: B116D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 82 ft</b> <b>Total Depth: 92.45 ft</b> <b>Initial Depth to Water: 44.78 ft</b>	<b>Pump Type: bladder</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 88 ft</b> <b>Estimated Total Volume Pumped: 3750 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 250 ml/min</b> <b>Final Draw Down: 0.2 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 851413</b>
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## Test Notes:

## Weather Conditions:

Sunny

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
9/8/2022 12:27 PM	00:00	6.16 pH	30.75 °C	113.95 µS/cm	3.47 mg/L	14.10 NTU	39.6 mV	44.78 ft	250.00 ml/min
9/8/2022 12:32 PM	05:00	5.96 pH	20.48 °C	122.82 µS/cm	4.05 mg/L	6.83 NTU	43.5 mV	44.95 ft	250.00 ml/min
9/8/2022 12:37 PM	10:00	5.98 pH	20.57 °C	122.89 µS/cm	4.01 mg/L	4.13 NTU	41.6 mV	45.00 ft	250.00 ml/min
9/8/2022 12:42 PM	15:00	5.97 pH	20.94 °C	123.48 µS/cm	4.06 mg/L	3.05 NTU	41.1 mV	44.98 ft	250.00 ml/min

## Samples

Sample ID:	Description:
B-116D	
DUP-2	

# Low-Flow Test Report:

Test Date / Time: 9/15/2022 9:51:20 AM

Project: Plant McDonough

Operator Name: Jude Waguespack

<b>Location Name: B-117D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 69.03 ft</b> <b>Total Depth: 79.03 ft</b> <b>Initial Depth to Water: 30.1 ft</b>	<b>Pump Type: bladder</b> <b>Tubing Type: LDPE</b> <b>Tubing Inner Diameter: 0.175 cm</b> <b>Tubing Length: 42 m</b> <b>Pump Intake From TOC: 74 ft</b> <b>Estimated Total Volume Pumped: 9000 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 1.46 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 728541</b>
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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 %	+/- 2	+/- 1000 %	+/- 0.3	
9/15/2022 9:51 AM	00:00	6.73 pH	21.96 °C	131.37 µS/cm	7.85 mg/L	3.54 NTU	116.5 mV	30.10 ft	200.00 ml/min
9/15/2022 9:56 AM	05:00	5.83 pH	18.93 °C	113.71 µS/cm	1.43 mg/L	4.45 NTU	118.1 mV	30.90 ft	200.00 ml/min
9/15/2022 10:01 AM	10:00	5.73 pH	18.48 °C	114.24 µS/cm	0.94 mg/L	2.62 NTU	134.1 mV	31.30 ft	200.00 ml/min
9/15/2022 10:06 AM	15:00	5.71 pH	18.45 °C	121.45 µS/cm	1.41 mg/L	2.06 NTU	122.8 mV	31.45 ft	200.00 ml/min
9/15/2022 10:11 AM	20:00	5.73 pH	18.35 °C	130.07 µS/cm	1.53 mg/L	1.28 NTU	122.5 mV	31.45 ft	200.00 ml/min
9/15/2022 10:16 AM	25:00	5.77 pH	18.30 °C	140.07 µS/cm	1.51 mg/L	1.09 NTU	121.5 mV	31.45 ft	200.00 ml/min
9/15/2022 10:21 AM	30:00	5.80 pH	18.30 °C	147.84 µS/cm	1.46 mg/L	1.79 NTU	120.5 mV	31.45 ft	200.00 ml/min
9/15/2022 10:26 AM	35:00	5.83 pH	18.35 °C	153.55 µS/cm	1.30 mg/L	2.43 NTU	119.3 mV	31.45 ft	200.00 ml/min
9/15/2022 10:31 AM	40:00	5.85 pH	18.31 °C	155.74 µS/cm	1.23 mg/L	2.05 NTU	118.3 mV	31.56 ft	200.00 ml/min
9/15/2022 10:36 AM	45:00	5.86 pH	18.40 °C	154.14 µS/cm	1.30 mg/L	1.33 NTU	117.8 mV	31.56 ft	200.00 ml/min

## Samples

Sample ID:	Description:
B-117D	

# Low-Flow Test Report:

Test Date / Time: 9/9/2022 10:10:35 AM

Project: Plant McDonough

Operator Name: M. Mann

<b>Location Name: B118</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 68 ft</b> <b>Total Depth: 78.32 ft</b> <b>Initial Depth to Water: 52.13 ft</b>	<b>Pump Type: Bladder</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 73 ft</b> <b>Estimated Total Volume Pumped: 22000 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.01 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 851413</b>
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## Test Notes:

## Weather Conditions:

Cloudy

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/9/2022 10:10 AM	00:00	6.77 pH	22.17 °C	0.44 µS/cm	8.11 mg/L	17.20 NTU	141.9 mV	52.13 ft	200.00 ml/min
9/9/2022 10:15 AM	05:00	6.49 pH	17.50 °C	89.05 µS/cm	9.44 mg/L	28.50 NTU	87.3 mV	52.09 ft	200.00 ml/min
9/9/2022 10:20 AM	10:00	6.50 pH	17.12 °C	88.60 µS/cm	9.89 mg/L	22.20 NTU	87.1 mV	52.03 ft	200.00 ml/min
9/9/2022 10:25 AM	15:00	6.54 pH	17.05 °C	88.97 µS/cm	9.85 mg/L	18.20 NTU	86.8 mV	52.07 ft	200.00 ml/min
9/9/2022 10:30 AM	20:00	6.54 pH	17.00 °C	90.83 µS/cm	9.84 mg/L	17.30 NTU	86.7 mV	52.04 ft	200.00 ml/min
9/9/2022 10:35 AM	25:00	6.55 pH	17.01 °C	92.35 µS/cm	9.88 mg/L	13.80 NTU	86.7 mV	52.05 ft	200.00 ml/min
9/9/2022 10:40 AM	30:00	6.54 pH	17.03 °C	93.50 µS/cm	10.41 mg/L	13.10 NTU	86.7 mV	52.08 ft	200.00 ml/min
9/9/2022 10:45 AM	35:00	6.53 pH	17.01 °C	94.56 µS/cm	10.26 mg/L	11.80 NTU	86.7 mV	52.09 ft	200.00 ml/min
9/9/2022 10:50 AM	40:00	6.52 pH	17.02 °C	95.20 µS/cm	10.28 mg/L	10.50 NTU	86.8 mV	52.11 ft	200.00 ml/min
9/9/2022 10:55 AM	45:00	6.51 pH	17.03 °C	95.56 µS/cm	10.39 mg/L	9.41 NTU	86.9 mV	52.08 ft	200.00 ml/min
9/9/2022 11:00 AM	50:00	6.51 pH	17.02 °C	95.79 µS/cm	10.55 mg/L	9.19 NTU	87.1 mV	52.07 ft	200.00 ml/min
9/9/2022 11:05 AM	55:00	6.50 pH	17.05 °C	96.01 µS/cm	10.63 mg/L	8.44 NTU	87.3 mV	52.09 ft	200.00 ml/min
9/9/2022 11:10 AM	01:00:00	6.50 pH	17.08 °C	95.13 µS/cm	10.53 mg/L	7.94 NTU	87.4 mV	52.08 ft	200.00 ml/min

9/9/2022 11:15 AM	01:05:00	6.50 pH	17.08 °C	95.02 µS/cm	10.49 mg/L	7.37 NTU	87.8 mV	52.05 ft	200.00 ml/min
9/9/2022 11:20 AM	01:10:00	6.49 pH	17.05 °C	94.82 µS/cm	10.35 mg/L	6.80 NTU	88.1 mV	52.07 ft	200.00 ml/min
9/9/2022 11:25 AM	01:15:00	6.50 pH	17.02 °C	94.37 µS/cm	10.34 mg/L	6.30 NTU	88.4 mV	52.07 ft	200.00 ml/min
9/9/2022 11:30 AM	01:20:00	6.49 pH	17.03 °C	93.85 µS/cm	10.47 mg/L	6.09 NTU	88.8 mV	52.04 ft	200.00 ml/min
9/9/2022 11:35 AM	01:25:00	6.49 pH	17.12 °C	93.62 µS/cm	10.39 mg/L	5.91 NTU	89.0 mV	52.08 ft	200.00 ml/min
9/9/2022 11:40 AM	01:30:00	6.50 pH	17.14 °C	93.63 µS/cm	10.60 mg/L	5.76 NTU	89.3 mV	52.10 ft	200.00 ml/min
9/9/2022 11:45 AM	01:35:00	6.49 pH	17.14 °C	93.09 µS/cm	10.64 mg/L	5.49 NTU	89.6 mV	52.03 ft	200.00 ml/min
9/9/2022 11:50 AM	01:40:00	6.50 pH	17.14 °C	92.83 µS/cm	10.68 mg/L	5.37 NTU	90.0 mV	52.08 ft	200.00 ml/min
9/9/2022 11:55 AM	01:45:00	6.50 pH	17.27 °C	93.17 µS/cm	10.64 mg/L	5.17 NTU	90.2 mV	52.07 ft	200.00 ml/min
9/9/2022 12:00 PM	01:50:00	6.49 pH	17.26 °C	92.95 µS/cm	10.62 mg/L	4.90 NTU	90.7 mV	52.12 ft	200.00 ml/min

## Samples

Sample ID:	Description:
B-118	Extra Rad

# Low-Flow Test Report:

Test Date / Time: 9/12/2022 9:57:33 AM

Project: Plant McDonough

Operator Name: M. Mann

<b>Location Name: B-119D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 98 ft</b> <b>Total Depth: 107.98 ft</b> <b>Initial Depth to Water: 47.04 ft</b>	<b>Pump Type: Bladder</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 103 ft</b> <b>Estimated Total Volume Pumped: 6300 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 150 ml/min</b> <b>Final Draw Down: 5.22 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 851413</b>
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## Test Notes:

## Weather Conditions:

Cloudy

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/12/2022 9:57 AM	00:00	6.44 pH	21.23 °C	135.37 µS/cm	2.83 mg/L	5.29 NTU	21.8 mV	47.04 ft	170.00 ml/min
9/12/2022 10:02 AM	05:00	6.57 pH	17.98 °C	138.48 µS/cm	3.19 mg/L	5.21 NTU	2.2 mV	49.07 ft	170.00 ml/min
9/12/2022 10:07 AM	10:00	6.61 pH	17.68 °C	138.82 µS/cm	4.58 mg/L	4.68 NTU	2.9 mV	50.21 ft	170.00 ml/min
9/12/2022 10:12 AM	15:00	6.61 pH	17.47 °C	138.26 µS/cm	5.10 mg/L	5.03 NTU	7.0 mV	51.16 ft	150.00 ml/min
9/12/2022 10:17 AM	20:00	6.61 pH	17.58 °C	138.84 µS/cm	5.30 mg/L	4.77 NTU	10.9 mV	51.71 ft	150.00 ml/min
9/12/2022 10:22 AM	25:00	6.62 pH	17.99 °C	139.02 µS/cm	5.15 mg/L	3.48 NTU	11.7 mV	51.88 ft	150.00 ml/min
9/12/2022 10:27 AM	30:00	6.59 pH	18.16 °C	136.22 µS/cm	4.47 mg/L	3.21 NTU	11.2 mV	51.99 ft	150.00 ml/min
9/12/2022 10:32 AM	35:00	6.57 pH	17.99 °C	134.61 µS/cm	4.46 mg/L	2.78 NTU	16.8 mV	52.16 ft	150.00 ml/min
9/12/2022 10:37 AM	40:00	6.57 pH	17.91 °C	134.84 µS/cm	4.71 mg/L	2.47 NTU	19.1 mV	52.26 ft	150.00 ml/min

## Samples

Sample ID:	Description:
B-119D	

DUP-3	
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# Low-Flow Test Report:

Test Date / Time: 9/14/2022 10:03:46 AM

Project: Plant McDonough

Operator Name: M. Mann

<b>Location Name: B-122D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 70 ft</b> <b>Total Depth: 80.63 ft</b> <b>Initial Depth to Water: 31.12 ft</b>	<b>Pump Type: Bladder</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 75 ft</b> <b>Estimated Total Volume Pumped: 4725 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 130 ml/min</b> <b>Final Draw Down: 2.4 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 851413</b>
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## Test Notes:

## Weather Conditions:

Sunny

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/14/2022 10:03 AM	00:00	6.15 pH	24.62 °C	450.12 µS/cm	3.36 mg/L	4.13 NTU	30.0 mV	31.12 ft	185.00 ml/min
9/14/2022 10:08 AM	05:00	6.12 pH	21.55 °C	452.23 µS/cm	0.87 mg/L	2.83 NTU	28.9 mV	32.96 ft	185.00 ml/min
9/14/2022 10:13 AM	10:00	6.11 pH	21.55 °C	455.01 µS/cm	0.61 mg/L	2.35 NTU	23.9 mV	33.80 ft	185.00 ml/min
9/14/2022 10:18 AM	15:00	6.11 pH	21.68 °C	454.27 µS/cm	0.44 mg/L	1.88 NTU	21.0 mV	33.13 ft	130.00 ml/min
9/14/2022 10:23 AM	20:00	6.11 pH	21.59 °C	454.72 µS/cm	0.34 mg/L	1.59 NTU	17.0 mV	33.31 ft	130.00 ml/min
9/14/2022 10:28 AM	25:00	6.11 pH	21.70 °C	454.67 µS/cm	0.29 mg/L	1.17 NTU	15.4 mV	33.49 ft	130.00 ml/min
9/14/2022 10:33 AM	30:00	6.07 pH	21.86 °C	459.33 µS/cm	0.26 mg/L	0.85 NTU	16.9 mV	33.52 ft	130.00 ml/min

## Samples

Sample ID:	Description:
B-122D	
EB-4	

# Low-Flow Test Report:

Test Date / Time: 9/20/2022 3:20:34 PM

Project: Plant McDonough

Operator Name: M. Mann

<b>Location Name: B-123D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 50 ft</b> <b>Top of Screen: 115 ft</b> <b>Total Depth: 164.9 ft</b> <b>Initial Depth to Water: 120.75 ft</b>	<b>Pump Type: reclaimer</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 135 ft</b> <b>Estimated Total Volume Pumped: 2500 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 500 ml/min</b> <b>Final Draw Down: 0 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 851413</b>
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## Test Notes:

Over 150 gallons pumped over last 2 days, 52 pumped this day. Redeveloped before sampled.

## 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	
9/20/2022 3:20 PM	00:00	7.16 pH	21.55 °C	818.13 µS/cm	8.58 mg/L	3.91 NTU	0.4 mV	120.75 ft	500.00 ml/min
9/20/2022 3:25 PM	05:00	7.13 pH	21.87 °C	817.85 µS/cm	8.47 mg/L	4.57 NTU	4.9 mV	120.75 ft	500.00 ml/min

## Samples

Sample ID:	Description:
B-123D	



# Low-Flow Test Report:

**Test Date / Time:** 9/8/2022 2:47:54 PM

**Project:** Plant McDonough

**Operator Name:** Jude Waguespack

<b>Location Name:</b> SW-1	<b>Pump Type:</b> grab <b>Tubing Inner Diameter:</b> 0.175 cm <b>Tubing Length:</b> 42 m <b>Flow Cell Volume:</b> 90 ml	<b>Instrument Used:</b> Aqua TROLL 400 <b>Serial Number:</b> 728541
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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	+/- 10	+/- 5 %	+/- 10 %	+/- 2	+/- 10	+/- 0.3
9/8/2022 2:46 PM	00:00	6.71 pH	82.60 °F	0.45 µS/cm	3.19 mg/L	9.43 NTU	87.8 mV	
9/8/2022 2:47 PM	01:00	6.70 pH	80.98 °F	0.46 µS/cm	3.12 mg/L	9.43 NTU	90.1 mV	

## Samples

Sample ID:	Description:
SW-1	

# Low-Flow Test Report:

Test Date / Time: 9/8/2022 3:22:10 PM

Project: Plant McDonough

Operator Name: Jude Waguespack

<b>Location Name: SW-2</b>	<b>Pump Type: grab</b> <b>Tubing Inner Diameter: 0.175 cm</b> <b>Tubing Length: 42 m</b> <b>Flow Cell Volume: 90 ml</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 728541</b>
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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	+/- 10	+/- 5 %	+/- 10 %	+/- 2	+/- 10	+/- 0.3
9/8/2022 3:22 PM	00:00	7.11 pH	76.86 °F	0.22 µS/cm	6.08 mg/L	3.05 NTU	98.0 mV	
9/8/2022 3:23 PM	01:00	7.10 pH	76.61 °F	0.22 µS/cm	6.11 mg/L	3.05 NTU	92.8 mV	

## Samples

Sample ID:	Description:
SW-2	

# Low-Flow Test Report:

Test Date / Time: 9/8/2022 3:42:23 PM

Project: Plant McDonough

Operator Name: Jude Waguespack

<b>Location Name: SW-3</b>	<b>Pump Type: grab</b> <b>Tubing Inner Diameter: 0.175 cm</b> <b>Tubing Length: 42 m</b> <b>Flow Cell Volume: 90 ml</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 728541</b>
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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	+/- 10	+/- 5 %	+/- 10 %	+/- 2	+/- 10	+/- 0.3
9/8/2022 3:42 PM	00:00	7.12 pH	75.79 °F	0.23 µS/cm	6.82 mg/L	2.29 NTU	67.6 mV	
9/8/2022 3:43 PM	01:00	7.13 pH	75.33 °F	0.23 µS/cm	6.86 mg/L	2.29 NTU	64.8 mV	

## Samples

Sample ID:	Description:
SW-3	

# Low-Flow Test Report:

**Test Date / Time:** 9/13/2022 9:14:41 AM

**Project:** Plant McDonough

**Operator Name:** Jude Waguespack

<b>Location Name:</b> SW-4	<b>Pump Type:</b> grab <b>Tubing Inner Diameter:</b> 0.175 cm <b>Tubing Length:</b> 42 m <b>Flow Cell Volume:</b> 90 ml	<b>Instrument Used:</b> Aqua TROLL 400 <b>Serial Number:</b> 728541
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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	+/- 10	+/- 5 %	+/- 10 %	+/- 2	+/- 10	+/- 0.3
9/13/2022 9:14 AM	00:00	6.60 pH	18.48 °C	444.38 µS/cm	6.92 mg/L	8.77 NTU	182.9 mV	
9/13/2022 9:15 AM	01:00	6.61 pH	18.61 °C	444.64 µS/cm	6.84 mg/L	8.77 NTU	187.6 mV	

## Samples

Sample ID:	Description:
SW-4	

**APPENDIX A**

# Instrument Calibration Forms, September 2022

Project Plant McDonough \*Include daily mid-day pH check\*  
 Field Staff J. Waguespack / M. Mann, J. Booth, A. Plowman, D. Fulton

Instrument Calibration

		Date:	9/7/22	9/7/22		
		Time:	7:54	10:15		
Parameter	Units	Standard	AquaTROLL SN <u>884187</u> iPad # <u>80</u>	Mid-Day pH	AquaTROLL SN <u>728541</u> iPad # <u>76</u>	Mid-Day pH
DO	% saturation	100	95.61	-----	101.81	-----
Conductivity	us/cm	4490	4795.7	-----	4416.8	-----
pH	S.U.	4.00	4.08		4.19	
pH	S.U.	7.00	7.12		7.26	
pH	S.U.	10.00	10.15		10.08	
ORP	mV	228.00	221.2	-----	221.7	-----

Turbidity	Units	Standard	Hach SN <u>14080603447</u>	Hach SN	Hach SN	Hach SN
	NTU	20	19.5			
	NTU	100	99.9			
	NTU	800	794			
	NTU	10.0	9.88			

		Date:	9/8/22	9/9/22		
		Time:	0815	755		
Parameter	Units	Standard	AquaTROLL SN <u>728541</u> iPad # <u>76</u>	Mid-Day pH	AquaTROLL SN <u>728541</u> iPad # <u>76</u>	Mid-Day pH
DO	% saturation	100	107.23	-----	94.15	-----
Conductivity	us/cm	4490	4516.6	-----	4400	-----
pH	S.U.	4.00	3.99		4.03	
pH	S.U.	7.00	7.02		6.99	
pH	S.U.	10.00	9.97		9.95	
ORP	mV	228.00	226.9	-----	229.5	-----

Turbidity	Units	Standard	Hach SN <u>14080603447</u>	Hach SN	Hach SN <u>14080603447</u>	Hach SN
	NTU	20	21.7		20.5	
	NTU	100	101		104	
	NTU	800	791		801	
	NTU	10.0	10.2		9.97	

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, M. Mann, D. Fulton

Instrument Calibration

		Date: <u>9/12/22</u>		Date: <u>09/13/22</u>		
		Time: <u>8:27</u>		Time: <u>10:39</u>		
Parameter	Units	Standard	AquaTROLL SN <u>728541</u> iPad # <u>76</u>	Mid-Day pH	AquaTROLL SN _____ iPad # _____	Mid-Day pH
DO	% saturation	100	<u>99.14</u>	-----	<u>101.52</u>	-----
Conductivity	us/cm	4490	<u>4610</u>	<u>4436.0</u>	<u>4476.1</u>	-----
pH	S.U.	4.00	<u>4.05</u>		<u>4.03</u>	
pH	S.U.	7.00	<u>7.02</u>		<u>7.04</u>	
pH	S.U.	10.00	<u>10.02</u>		<u>10.04</u>	
ORP	mV	228.00	<u>227.1</u>	-----	<u>234.1</u>	-----

Turbidity	Units	Standard	Hach SN <u>19080003447</u>	Hach SN	Hach SN	Hach SN
	NTU	20	<u>19.5</u>			
	NTU	100	<u>98.4</u>			
	NTU	800	<u>800</u>			
	NTU	10.0	<u>9.87</u>	<u>10.1</u>		

		Date: <u>9/15/22</u>		Date: <u>9/16/22</u>		
		Time: <u>7:46</u>		Time: <u>7:47</u>		
Parameter	Units	Standard	AquaTROLL SN <u>728541</u> iPad # <u>76</u>	Mid-Day pH	AquaTROLL SN <u>728541</u> iPad # <u>76</u>	Mid-Day pH
DO	% saturation	100	<u>100.80</u>	-----	<u>100.40</u>	-----
Conductivity	us/cm	4490	<u>4559.7</u>	-----	<u>4443.6</u>	-----
pH	S.U.	4.00	<u>4.04</u>		<u>4.02</u>	
pH	S.U.	7.00	<u>7.02</u>		<u>7.02</u>	
pH	S.U.	10.00	<u>10.04</u>		<u>10.08</u>	
ORP	mV	228.00	<u>231.0</u>	-----	<u>233.7</u>	-----

Turbidity	Units	Standard	Hach SN <u>19080003447</u>	Hach SN	Hach SN <u>19080003447</u>	Hach SN
	NTU	20	<u>19.5</u>		<u>20.2</u>	
	NTU	100	<u>99.5</u>		<u>98.7</u>	
	NTU	800	<u>789</u>		<u>803</u>	
	NTU	10.0	<u>10.6</u>		<u>10.3</u>	

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, M. Mann, J. Booth, A. Plowman, D. Fulton

Instrument Calibration

		Date:	9/19/22	9/20/22		
		Time:	8:19	8:40		
Parameter	Units	Standard	AquaTROLL SN <u>728541</u> iPad # <u>76</u>	Mid-Day pH	AquaTROLL SN <u>728541</u> iPad # <u>76</u>	Mid-Day pH
DO	% saturation	100	101.45	-----	99.58	-----
Conductivity	us/cm	4490	4651.9	-----	4415.8	-----
pH	S.U.	4.00	4.04		4.02	
pH	S.U.	7.00	7.02		6.98	
pH	S.U.	10.00	9.99		10.00	
ORP	mV	228.00	218.6	-----	223.7	-----

Turbidity	Units	Standard	Hach SN <u>1408003447</u>	Hach SN	Hach SN <u>1408003447</u>	Hach SN
	NTU	20	20.0		19.1	
	NTU	100	98.1		101	
	NTU	800	796		804	
	NTU	10.0	10.0		10.3	

		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



Project Plant McDonough  
 Field Staff J. Waguespack, M. Mann, J. Booth, A. Plowman, D. Fulton

\*Include daily mid-day pH check\*

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Instrument Calibration

Parameter	Units	Standard	Date: 09/07/22		Date: 09/08/22	
			Time: 06:30		Time: 10:06	Time: 13:52
			AquaTROLL SN 883533 iPad # 111	Mid-Day pH	AquaTROLL SN 883533 iPad # 111	Mid-Day pH
DO	% saturation	100	101	-----	101.97	-----
Conductivity	us/cm	4490	4586.5	-----	4352.5	-----
pH	S.U.	4.00	4.11	4.05	3.99	4.05
pH	S.U.	7.00	7.11	7.05	6.97	6.98
pH	S.U.	10.00	10.11	9.97	9.05	9.98
ORP	mV	228.00	219.4	-----	229.4	-----

Turbidity	Units	Standard	Date: 09/07/22		Date: 09/08/22	
			Hach SN	Hach SN	Hach SN	Hach SN
			143F-3911		143F-3911	143F-3911
	NTU	20	0.1	---	0.105	0.03
	NTU	100	99.7	---	11.11	11.98
	NTU	800	794	---	1019.7	1015.9
	NTU	10.0	9.7	---		

Parameter	Units	Standard	Date: 09/12/22		Date: 09/12/22	
			Time: 07:00	Time: 12:30	Time: 14:50	
			AquaTROLL SN 883533 iPad # 111	Mid-Day pH	AquaTROLL SN 883533 iPad # 111	Mid-Day pH
DO	% saturation	100	230.3	-----		-----
Conductivity	us/cm	4490	4412.7	4552.1		-----
pH	S.U.	4.00	3.98	4.05	4.06	
pH	S.U.	7.00	6.98	7.03	6.96	
pH	S.U.	10.00	9.98	10.05	9.96	
ORP	mV	228.00	230.3	-----		-----

Turbidity	Units	Standard	Date: 09/12/22		Date: 09/12/22	
			Hach SN	Hach SN	Hach SN	Hach SN
			143F-3911			
	NTU	20	0.05			
	NTU	100	0.96			
	NTU	800	9.92			
	NTU	10.0				

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

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\*Include daily mid-day pH check\*

Project Plant McDonough  
Field Staff J. Waguespack, M. Mann, D. Fulton

Instrument Calibration

		Date:	09/13/22			
		Time:	06:45	15:00		
Parameter	Units	Standard	AquaTROLL SN <u>85353</u> iPad # <u>11</u>	Mid-Day pH	AquaTROLL SN _____ iPad # _____	Mid-Day pH
DO	% saturation	100	99.2	-----		-----
Conductivity	us/cm	4490	4419.0	-----		-----
pH	S.U.	4.00	3.94	4.06		
pH	S.U.	7.00	7.00	7.03		
pH	S.U.	10.00	9.98	9.99		
ORP	mV	228.00	236.2	-----		-----

Turbidity	Units	Standard	Lammate Hach SN 1438-3911	Hach SN	Hach SN	Hach SN
	NTU	20	0.0			
	NTU	100	0.57			
	NTU	800	10.51			
	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 - Nphelometric Turbidity Units; NC - Not calibrated.

Project Plant McDonough \*Include daily mid-day pH check\*  
 Field Staff J. Waguespack, M. Mann, J. Booth, A. Plowman, D. Fulton

Instrument Calibration

		Date:	09/15/22			
		Time:	07:20	12:15		
Parameter	Units	Standard	AquaTROLL SN <u>883533</u> iPad # <u>111</u>	Mid-Day pH	AquaTROLL SN <u>883533</u> iPad # <u>111</u>	Mid-Day pH
DO	% saturation	100	<del>28</del> 100.9	-----	99.49	-----
Conductivity	us/cm	4490	4499	-----	4493.8	-----
pH	S.U.	4.00	3.96	4.09	3.90	
pH	S.U.	7.00	6.94	7.06	7.11	
pH	S.U.	10.00	9.98	10.05	10.23	
ORP	mV	228.00	231	-----	227.8	-----

Turbidity	Units	Standard	<del>in mott</del> Hach SN <u>1438-3911</u>	<del>in mott</del> Hach SN <u>1438-2911</u>	Hach SN	Hach SN
	NTU	<del>20</del>	20	0.25	0.34	
NTU	<del>100</del>	100	1.03	1.03		
NTU	<del>800</del>	800	9.85	10.34		
NTU	<del>10.0</del>	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 - Nphelometric Turbidity Units; NC - Not calibrated

Project Plant McDonough *\*Include daily mid-day pH check\**  
 Field Staff J. Waguespack, M. Mann, J. Booth, A. Plowman, D. Fulton

Instrument Calibration

		Date:	09/08/2022	09/09/2022		
		Time:	10:59	07:55		
Parameter	Units	Standard	AquaTROLL SN <u>851413</u> iPad # <u>55</u>	Mid-Day pH	AquaTROLL SN <u>851413</u> iPad # <u>55</u>	Mid-Day pH
DO	% saturation	100	108.89	-----	98.50	-----
Conductivity	us/cm	4490	4655.7	-----	4456.1	-----
pH	S.U.	4.00	4.13		4.03	
pH	S.U.	7.00	7.00		7.00	
pH	S.U.	10.00	10.00		10.06	
ORP	mV	228.00	226.8	-----	218.0	-----

Turbidity	Units	Standard	Hach SN <u>21010000165</u>	Hach SN	Hach SN <u>21010000165</u>	Hach SN
	NTU	20	19.2		20.0	
	NTU	100	100		101	
	NTU	800	859		806	
	NTU	10.0	9.89		9.94	

		Date:	09/12/2022	09/19/2022		
		Time:	07:40	07:42		
Parameter	Units	Standard	AquaTROLL SN <u>851413</u> iPad # <u>55</u>	Mid-Day pH	AquaTROLL SN <u>851413</u> iPad # <u>55</u>	Mid-Day pH
DO	% saturation	100	101.76	-----	102.54	-----
Conductivity	us/cm	4490	4421.2	-----	4449.6	-----
pH	S.U.	4.00	4.00		4.05	
pH	S.U.	7.00	6.98		7.00	
pH	S.U.	10.00	9.93		10.00	
ORP	mV	228.00	222.4	-----	220.8	-----

Turbidity	Units	Standard	Hach SN <u>21010000165</u>	Hach SN	Hach SN <u>21010000165</u>	Hach SN
	NTU	20	20.6		19.5	
	NTU	100	100		99.7	
	NTU	800	796		799	
	NTU	10.0	9.58		10.2	

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, M. Mann, D. Fulton

Instrument Calibration

Parameter	Units	Standard	Date: 09/13/22		Date: 09/14/22	
			AquaTROLL SN 85143 iPad # 55	Mid-Day pH	AquaTROLL SN 85143 iPad # 55	Mid-Day pH
DO	% saturation	100	94.24	-----	101.51	-----
Conductivity	us/cm	4490	4427.8	-----	4481.1	-----
pH	S.U.	4.00	4.01		4.03	
pH	S.U.	7.00	6.99		7.02	
pH	S.U.	10.00	9.99		10.06	
ORP	mV	228.00	225.7	-----	224.8	-----

Turbidity	Units	Standard	Hach SN 21010D000165	Hach SN	Hach SN 21010D000165	Hach SN
	NTU	20	19.9		19.8	
	NTU	100	101		100	
	NTU	800	807		802	
	NTU	10.0	9.66		9.98	

Parameter	Units	Standard	Date: 09/15/22		Date: 09/16/22	
			AquaTROLL SN 85143 iPad # 55	Mid-Day pH	AquaTROLL SN 85143 iPad # 55	Mid-Day pH
DO	% saturation	100	100.63	-----	99.10	-----
Conductivity	us/cm	4490	4452.6	-----	4465.3	-----
pH	S.U.	4.00	4.02		4.03	
pH	S.U.	7.00	6.99		6.99	
pH	S.U.	10.00	9.96		9.97	
ORP	mV	228.00	218.2	-----	221.8	-----

Turbidity	Units	Standard	Hach SN 21010D000165	Hach SN	Hach SN 21010D000165	Hach SN
	NTU	20	19.5		20.2	
	NTU	100	98.6		99.8	
	NTU	800	800		794	
	NTU	10.0	10.1		10.2	

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, M. Mann, J. Booth, A. Plowman, D. Fulton

*COLE MAYER*

Instrument Calibration

		Date: 9-7-22			9-8-2022	
		Time: 8:20			5:47	
Parameter	Units	Standard	AquaTROLL SN 843249 iPad # _____	Mid-Day pH	AquaTROLL SN 884187 iPad # 80	Mid-Day pH
DO	% saturation	100		-----	105.57	-----
Conductivity	us/cm	4490	4765	-----	4037.6	-----
pH	S.U.	4.00	4.10		3.87	
pH	S.U.	7.00	7.06		7.02	
pH	S.U.	10.00			10.00	
ORP	mV	228.00		-----	231.3	-----

Turbidity	Units	Standard	Hach SN 7007-1416	Hach SN	Hach SN 7007-1416	Hach SN
	NTU	20	1.16		1.83	
	NTU	100				
	NTU	800				
	NTU	10.0	7.43		9.43	

		Date: 9-9-2022				
		Time: 0740				
Parameter	Units	Standard	AquaTROLL SN 884187 iPad # 80	Mid-Day pH	AquaTROLL SN _____ iPad # _____	Mid-Day pH
DO	% saturation	100	100.08	-----		-----
Conductivity	us/cm	4490	4610	-----		-----
pH	S.U.	4.00	4.04			
pH	S.U.	7.00	7.02			
pH	S.U.	10.00	9.99			
ORP	mV	228.00	226.0	-----		-----

Turbidity	Units	Standard	Hach SN 7007-1416	Hach SN	Hach SN	Hach SN
	NTU	20	0.94			
	NTU	100				
	NTU	800				
	NTU	10.0	8.90			

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

*AquaTroll Unit malfunctioning (9-7-2022)  
SN 843285*

\*Include daily mid-day pH check\*

Project Plant McDonough  
Field Staff J. Waguespack, M. Mann, D. Fulton

*COLE WATER*

Instrument Calibration

		Date:	04/13/2022	Date:		04/14/2022
		Time:	0740	Time:		0730
Parameter	Units	Standard	AquaTROLL SN 884187 iPad # 80	Mid-Day pH	AquaTROLL SN 884187 iPad # 80	Mid-Day pH
DO	% saturation	100	99.76	-----	100.65	-----
Conductivity	us/cm	4490	4484.5	-----	4510	-----
pH	S.U.	4.00	4.06		4.02	
pH	S.U.	7.00	6.99		7.02	
pH	S.U.	10.00	10.06		9.99	
ORP	mV	228.00	239.2	-----	233.1	-----

Turbidity	Units	Standard	Hach SN 2007-1416	Hach SN	Hach SN 2002-1416	Hach SN
	NTU	1	1.28		1.27	
	NTU	100				
	NTU	800				
	NTU	10.0	10.0		10.04	

		Date:	04/14/2022	Date:		4/15/2022
		Time:	0745	Time:		0725
Parameter	Units	Standard	AquaTROLL SN 728541 iPad # 76	Mid-Day pH	AquaTROLL SN 884187 iPad # 80	Mid-Day pH
DO	% saturation	100	97.66	-----	98.51	-----
Conductivity	us/cm	4490	4512.0	-----	4480	-----
pH	S.U.	4.00	4.01		4.02	
pH	S.U.	7.00	7.02		7.02	
pH	S.U.	10.00	9.98		10.03	
ORP	mV	228.00	223.6	-----	227.0	-----

Turbidity	Units	Standard	Hach SN 140861024447	Hach SN	Hach SN	Hach SN
	NTU	20	20.6	1 NTU	1.55	
	NTU	100	102			
	NTU	800	804			
	NTU	10.0	10.2	10 NTU	9.63	

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, M. Mann, J. Booth, A. Plowman, D. Fulton

*\*Include daily mid-day pH check\**

*Cole Mayer*

Instrument Calibration

		Date:	09/16/2022			
		Time:	0725			
Parameter	Units	Standard	AquaTROLL SN <u>8589187</u> iPad # <u>80</u>	Mid-Day pH	AquaTROLL SN _____ iPad # _____	Mid-Day pH
DO	% saturation	100	100.89	-----		-----
Conductivity	us/cm	4490	4449.2	-----		-----
pH	S.U.	4.00	4.02			
pH	S.U.	7.00	7.01			
pH	S.U.	10.00	10.04			
ORP	mV	228.00	226.3	-----		-----

Turbidity	Units	Standard	Hach SN <u>7007-1416</u>	Hach SN	Hach SN	Hach SN
	NTU	20	117			
	NTU	100				
	NTU	800				
	NTU	10.0	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



**APPENIDX A**

**Field Data Forms, January-February 2023**

# Low-Flow Test Report:

Test Date / Time: 2/1/2023 10:44:43 AM

Project: Plant McDough January 2023 (2)

Operator Name: Tiffany Messier

<b>Location Name: MCD-DGWA-53</b> <b>Well Diameter: 2 in</b> <b>Casing Type: pvc</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 28.24 ft</b> <b>Total Depth: 38.4 ft</b> <b>Initial Depth to Water: 11 ft</b>	<b>Pump Type: Bladder</b> <b>Tubing Type: LDPE</b> <b>Pump Intake From TOC: 36.4 ft</b> <b>Estimated Total Volume Pumped: 11107.5 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 90 ml/min</b> <b>Final Draw Down: 8.79 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 851413</b>
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## Test Notes:

## Weather Conditions:

Cloudy 49

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
2/1/2023 10:44 AM	00:00	6.75 pH	15.38 °C	217.66 µS/cm	9.57 mg/L	800.00 NTU	-24.4 mV	11.60 ft	90.00 ml/min
2/1/2023 10:49 AM	05:00	6.52 pH	16.69 °C	194.59 µS/cm	9.81 mg/L	800.00 NTU	-30.2 mV	14.80 ft	90.00 ml/min
2/1/2023 10:54 AM	10:00	6.57 pH	16.74 °C	185.89 µS/cm	9.94 mg/L	800.00 NTU	-19.0 mV	16.05 ft	90.00 ml/min
2/1/2023 10:59 AM	15:00	6.61 pH	16.78 °C	179.89 µS/cm	9.89 mg/L	789.00 NTU	-4.2 mV	18.15 ft	90.00 ml/min
2/1/2023 11:04 AM	20:00	6.66 pH	16.47 °C	174.56 µS/cm	9.59 mg/L	83.10 NTU	7.2 mV	17.40 ft	90.00 ml/min
2/1/2023 11:09 AM	25:00	6.67 pH	16.16 °C	175.02 µS/cm	9.28 mg/L	68.30 NTU	8.5 mV	18.43 ft	90.00 ml/min
2/1/2023 11:14 AM	30:00	6.66 pH	16.20 °C	175.08 µS/cm	8.83 mg/L	60.80 NTU	8.5 mV	18.70 ft	90.00 ml/min
2/1/2023 11:19 AM	35:00	6.65 pH	16.17 °C	175.92 µS/cm	8.37 mg/L	56.00 NTU	6.8 mV	18.91 ft	90.00 ml/min
2/1/2023 11:24 AM	40:00	6.63 pH	16.16 °C	177.87 µS/cm	7.79 mg/L	51.70 NTU	3.3 mV	19.10 ft	90.00 ml/min
2/1/2023 11:29 AM	45:00	6.61 pH	16.28 °C	181.44 µS/cm	7.19 mg/L	46.20 NTU	1.7 mV	19.35 ft	90.00 ml/min
2/1/2023 11:34 AM	50:00	6.59 pH	16.42 °C	184.28 µS/cm	6.51 mg/L	42.49 NTU	-2.0 mV	19.55 ft	90.00 ml/min
2/1/2023 11:39 AM	55:00	6.57 pH	16.31 °C	189.30 µS/cm	5.95 mg/L	40.90 NTU	-2.1 mV	19.60 ft	90.00 ml/min
2/1/2023 11:44 AM	01:00:00	6.54 pH	16.38 °C	194.91 µS/cm	5.11 mg/L	38.20 NTU	-8.0 mV	19.70 ft	90.00 ml/min

2/1/2023 11:49 AM	01:05:00	6.52 pH	16.38 °C	197.69 µS/cm	4.68 mg/L	30.40 NTU	-7.3 mV	19.88 ft	90.00 ml/min
2/1/2023 11:54 AM	01:10:00	6.50 pH	16.41 °C	202.93 µS/cm	4.27 mg/L	20.00 NTU	-2.5 mV	20.60 ft	90.00 ml/min
2/1/2023 11:59 AM	01:15:00	6.49 pH	16.47 °C	204.76 µS/cm	3.86 mg/L	25.80 NTU	-8.4 mV	20.02 ft	90.00 ml/min
2/1/2023 12:04 PM	01:20:00	6.47 pH	16.65 °C	206.39 µS/cm	3.45 mg/L	25.00 NTU	-9.7 mV	20.03 ft	90.00 ml/min
2/1/2023 12:09 PM	01:25:00	6.45 pH	16.56 °C	210.91 µS/cm	2.98 mg/L	21.40 NTU	-5.1 mV	20.03 ft	90.00 ml/min
2/1/2023 12:14 PM	01:30:00	6.46 pH	16.46 °C	208.94 µS/cm	2.69 mg/L	21.00 NTU	-12.3 mV	20.03 ft	90.00 ml/min
2/1/2023 12:19 PM	01:35:00	6.47 pH	16.43 °C	209.35 µS/cm	2.49 mg/L	22.60 NTU	-12.4 mV	20.30 ft	90.00 ml/min
2/1/2023 12:24 PM	01:40:00	6.45 pH	16.39 °C	215.18 µS/cm	2.03 mg/L	18.00 NTU	-14.4 mV	20.33 ft	90.00 ml/min
2/1/2023 12:29 PM	01:45:00	6.43 pH	16.45 °C	217.95 µS/cm	1.76 mg/L	12.50 NTU	-8.8 mV	20.33 ft	90.00 ml/min
2/1/2023 12:34 PM	01:50:00	6.43 pH	16.49 °C	218.73 µS/cm	1.57 mg/L	13.30 NTU	-14.8 mV	20.39 ft	90.00 ml/min
2/1/2023 12:39 PM	01:55:00	6.42 pH	16.64 °C	219.58 µS/cm	1.40 mg/L	10.40 NTU	-14.0 mV	20.39 ft	90.00 ml/min
2/1/2023 12:44 PM	02:00:00	6.42 pH	16.69 °C	221.14 µS/cm	1.27 mg/L	9.44 NTU	-10.3 mV	20.39 ft	90.00 ml/min
2/1/2023 12:48 PM	02:03:25	6.42 pH	16.73 °C	222.75 µS/cm	1.17 mg/L	9.45 NTU	-11.6 mV	20.39 ft	90.00 ml/min

## Samples

Sample ID:	Description:
MCD-DGWA-53	TDS, Radium, Metals, Inorganics, Alkalinity

# Low-Flow Test Report:

Test Date / Time: 1/31/2023 3:24:46 PM

Project: Plant McDough January 2023

Operator Name: Tiffany Messier

<b>Location Name: MCD-DGWA-70A</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 52.41ft</b> <b>Total Depth: 62.41 ft</b> <b>Initial Depth to Water: 43.05 ft</b>	<b>Pump Type: Bladder</b> <b>Tubing Type: LDPE</b> <b>Pump Intake from TOC: 57.41 ft</b> <b>Estimated Total Volume Pumped: 7500 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 150 ml/min</b> <b>Final Draw Down: 0.14 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 851413</b>
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## Test Notes:

## Weather Conditions:

Light rain 65

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
1/31/2023 3:24 PM	00:00	5.59 pH	17.18 °C	61.54 µS/cm	4.59 mg/L	16.70 NTU	141.3 mV	43.05 ft	150.00 ml/min
1/31/2023 3:29 PM	05:00	5.60 pH	17.19 °C	61.92 µS/cm	4.59 mg/L	9.99 NTU	119.2 mV	43.10 ft	150.00 ml/min
1/31/2023 3:34 PM	10:00	5.60 pH	17.19 °C	61.70 µS/cm	4.60 mg/L	6.35 NTU	119.5 mV	43.19 ft	150.00 ml/min
1/31/2023 3:39 PM	15:00	5.60 pH	17.23 °C	61.68 µS/cm	4.60 mg/L	6.26 NTU	108.8 mV	43.19 ft	150.00 ml/min
1/31/2023 3:44 PM	20:00	5.61 pH	17.25 °C	61.50 µS/cm	4.60 mg/L	6.11 NTU	105.3 mV	43.19 ft	150.00 ml/min
1/31/2023 3:49 PM	25:00	5.59 pH	17.23 °C	61.51 µS/cm	4.61 mg/L	2.49 NTU	105.0 mV	43.19 ft	150.00 ml/min
1/31/2023 3:54 PM	30:00	5.61 pH	17.23 °C	61.42 µS/cm	4.61 mg/L	1.60 NTU	101.5 mV	43.19 ft	150.00 ml/min
1/31/2023 3:59 PM	35:00	5.61 pH	17.19 °C	61.46 µS/cm	4.61 mg/L	0.72 NTU	100.3 mV	43.19 ft	150.00 ml/min
1/31/2023 4:04 PM	40:00	5.61 pH	17.18 °C	61.44 µS/cm	4.62 mg/L	0.35 NTU	97.6 mV	43.19 ft	150.00 ml/min
1/31/2023 4:09 PM	45:00	5.61 pH	17.17 °C	61.42 µS/cm	4.63 mg/L	0.06 NTU	98.4 mV	43.19 ft	150.00 ml/min
1/31/2023 4:14 PM	50:00	5.61 pH	17.14 °C	61.22 µS/cm	4.63 mg/L	0.01 NTU	132.1 mV	43.19 ft	150.00 ml/min

## Samples

Sample ID:	Description:
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MCD-DGWA-70A

TDS, Radium, Metals, Inorganics, Alkalinity

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# Low-Flow Test Report:

**Test Date / Time:** 1/31/2023 4:10:11 PM

**Project:** Plant McDonough January 2023 SAE

**Operator Name:** Taylor Johnson

<b>Location Name: MCD-DGWA-71</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 37.71 ft</b> <b>Total Depth: 47.71 ft</b> <b>Initial Depth to Water: 25.55 ft</b>	<b>Pump Type: QED Dedicated</b> <b>Tubing Type: HDPE</b> <b>Pump Intake From TOC: 42.71 ft</b> <b>Estimated Total Volume Pumped: 1668.333 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 130 ml/min</b> <b>Final Draw Down: 3.51 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 884187</b>
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## Test Notes:

1.5 l prepurged

## 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	+/- 1000 %	+/- 0.3	
1/31/2023 4:10 PM	00:00	5.81 pH	17.89 °C	65.68 µS/cm	1.18 mg/L	2.38 NTU	38.5 mV	25.55 ft	130.00 ml/min
1/31/2023 4:14 PM	04:00	5.79 pH	17.77 °C	65.34 µS/cm	1.16 mg/L	1.24 NTU	30.3 mV	29.03 ft	130.00 ml/min
1/31/2023 4:15 PM	04:50	5.79 pH	17.77 °C	65.34 µS/cm	1.18 mg/L	1.24 NTU	29.4 mV	29.03 ft	130.00 ml/min
1/31/2023 4:19 PM	08:50	5.79 pH	17.74 °C	65.28 µS/cm	1.17 mg/L	1.53 NTU	24.7 mV	29.04 ft	130.00 ml/min
1/31/2023 4:23 PM	12:50	5.78 pH	17.72 °C	65.24 µS/cm	1.02 mg/L	1.24 NTU	21.4 mV	29.06 ft	130.00 ml/min

## Samples

Sample ID:	Description:
MCD-DGWA-71	TDS,radium, metals, Inorganics, alkalinity

# Low-Flow Test Report:

**Test Date / Time:** 2/6/2023 9:36:07 AM  
**Project:** Jan. SAE 2023 McDonough (3)  
**Operator Name:** Mark Mann

<b>Location Name:</b> MCD-DGWC-2 <b>Well Diameter:</b> 2 in <b>Casing Type:</b> PVC <b>Screen Length:</b> 10 ft <b>Top of Screen:</b> 42.42 ft <b>Total Depth:</b> 52.42 ft <b>Initial Depth to Water:</b> 28.97 ft	<b>Pump Type:</b> Dedicated bladder <b>Tubing Type:</b> Tru-Poly <b>Pump Intake From TOC:</b> 47 ft <b>Estimated Total Volume Pumped:</b> 4000 ml <b>Flow Cell Volume:</b> 90 ml <b>Final Flow Rate:</b> 200 ml/min <b>Final Draw Down:</b> 0.39 ft	<b>Instrument Used:</b> Aqua TROLL 400 <b>Serial Number:</b> 851413
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## Test Notes:

**Weather Conditions:**  
Sunny

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/6/2023 9:36 AM	00:00	7.04 pH	13.99 °C	343.76 µS/cm	6.89 mg/L	16.50 NTU	102.8 mV	28.97 ft	200.00 ml/min
2/6/2023 9:41 AM	05:00	6.28 pH	16.87 °C	331.53 µS/cm	1.04 mg/L	0.00 NTU	139.7 mV	29.36 ft	200.00 ml/min
2/6/2023 9:46 AM	10:00	6.21 pH	17.21 °C	332.56 µS/cm	0.85 mg/L	0.00 NTU	95.7 mV	29.37 ft	200.00 ml/min
2/6/2023 9:51 AM	15:00	6.19 pH	17.54 °C	330.21 µS/cm	0.55 mg/L	0.00 NTU	92.3 mV	29.40 ft	200.00 ml/min
2/6/2023 9:56 AM	20:00	6.17 pH	17.81 °C	328.51 µS/cm	0.38 mg/L	0.00 NTU	91.4 mV	29.36 ft	200.00 ml/min

## Samples

Sample ID:	Description:
MCD-DGWC-2	TDS, Radium, Metals, Inorganics, Alkalinity
FB-4	TDS, Radium, Metals, Inorganics, Alkalinity

# Low-Flow Test Report:

Test Date / Time: 2/3/2023 11:56:29 AM

Project: Jan. SAE 2023 McDonough (6)

Operator Name: M. Mann

<b>Location Name: MCD-DGWC-4</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 36.71 ft</b> <b>Total Depth: 46.71 ft</b> <b>Initial Depth to Water: 24.1 ft</b>	<b>Pump Type: Dedicated Bladder</b> <b>Tubing Type: Tru-Poly</b> <b>Pump Intake From TOC: 42 ft</b> <b>Estimated Total Volume Pumped: 6000 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 150 ml/min</b> <b>Final Draw Down: 0.28 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 884187</b>
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## Test Notes:

## Weather Conditions:

Sunny

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/3/2023 11:56 AM	00:00	6.24 pH	28.38 °C	1,285.2 µS/cm	4.96 mg/L	5.29 NTU	102.7 mV	24.10 ft	500.00 ml/min
2/3/2023 12:01 PM	05:00	5.79 pH	17.78 °C	1,671.7 µS/cm	0.54 mg/L	5.70 NTU	99.7 mV	24.64 ft	250.00 ml/min
2/3/2023 12:06 PM	10:00	5.77 pH	17.22 °C	1,700.6 µS/cm	0.27 mg/L	3.29 NTU	99.6 mV	24.39 ft	150.00 ml/min
2/3/2023 12:11 PM	15:00	5.78 pH	17.10 °C	1,697.3 µS/cm	0.22 mg/L	3.09 NTU	100.1 mV	24.39 ft	150.00 ml/min
2/3/2023 12:16 PM	20:00	5.77 pH	17.23 °C	1,701.3 µS/cm	0.19 mg/L	2.68 NTU	99.8 mV	24.36 ft	150.00 ml/min
2/3/2023 12:21 PM	25:00	5.77 pH	17.29 °C	1,692.9 µS/cm	0.17 mg/L	1.71 NTU	99.8 mV	24.38 ft	150.00 ml/min

## Samples

Sample ID:	Description:
MCD-DGWC-4	TDS, Radium, Metals, Inorganics, Alkalinity



# Low-Flow Test Report:

**Test Date / Time:** 2/7/2023 9:11:25 AM  
**Project:** Jan. SAE 2023 McDonough (6)  
**Operator Name:** Mark Mann

<b>Location Name: MCD-DGWC-5</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 23.25 ft</b> <b>Total Depth: 33.25 ft</b> <b>Initial Depth to Water: 11.42 ft</b>	<b>Pump Type: Dedicated Bladder</b> <b>Tubing Type: Tru-Poly</b> <b>Pump Intake From TOC: 24.62 ft</b> <b>Estimated Total Volume Pumped: 8090 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 150 ml/min</b> <b>Final Draw Down: 0.24 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 851413</b>
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## Test Notes:

**Weather Conditions:**  
Sunny

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/7/2023 9:11 AM	00:00	6.29 pH	14.58 °C	945.51 µS/cm	7.92 mg/L	1.64 NTU	162.2 mV	11.42 ft	320.00 ml/min
2/7/2023 9:16 AM	05:00	4.85 pH	16.77 °C	1,141.5 µS/cm	1.08 mg/L	5.24 NTU	533.4 mV	11.64 ft	150.00 ml/min
2/7/2023 9:21 AM	10:00	4.86 pH	16.58 °C	1,152.7 µS/cm	0.68 mg/L	5.56 NTU	539.5 mV	11.66 ft	150.00 ml/min
2/7/2023 9:26 AM	15:00	4.85 pH	16.56 °C	1,145.4 µS/cm	0.65 mg/L	5.28 NTU	541.4 mV	11.66 ft	150.00 ml/min
2/7/2023 9:31 AM	20:00	4.86 pH	16.77 °C	1,132.5 µS/cm	0.61 mg/L	5.19 NTU	476.4 mV	11.64 ft	150.00 ml/min
2/7/2023 9:36 AM	25:00	4.86 pH	16.51 °C	1,139.0 µS/cm	0.55 mg/L	4.53 NTU	473.8 mV	11.64 ft	150.00 ml/min
2/7/2023 9:41 AM	30:00	4.87 pH	16.92 °C	1,140.2 µS/cm	0.51 mg/L	4.25 NTU	473.8 mV	11.63 ft	150.00 ml/min
2/7/2023 9:46 AM	35:00	4.87 pH	16.91 °C	1,140.1 µS/cm	0.50 mg/L	4.19 NTU	483.6 mV	11.61 ft	150.00 ml/min
2/7/2023 9:51 AM	40:00	4.88 pH	17.04 °C	1,142.0 µS/cm	0.49 mg/L	6.20 NTU	468.6 mV	11.64 ft	150.00 ml/min
2/7/2023 9:56 AM	45:00	4.86 pH	17.23 °C	1,123.7 µS/cm	0.63 mg/L	6.18 NTU	543.0 mV	11.66 ft	150.00 ml/min
2/7/2023 9:59 AM	48:16	4.89 pH	17.23 °C	1,180.2 µS/cm	0.34 mg/L	3.25 NTU	543.9 mV	11.66 ft	150.00 ml/min

## Samples

Sample ID:	Description:
MCD-DGWC-5	TDS, Radium, Metals, Alkalinity, inorganics
FB-5	TDS, Radium, Metals, Alkalinity, inorganics

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# Low-Flow Test Report:

Test Date / Time: 2/7/2023 10:45:39 AM

Project: Plant McDonough January 2023 SAE (12)

Operator Name: Ever Guillen

<b>Location Name: MCD-DGWC-8</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 41.33 ft</b> <b>Total Depth: 51.33 ft</b> <b>Initial Depth to Water: 37.61 ft</b>	<b>Pump Type: Dedicated Bladder Pump</b> <b>Tubing Type: PE</b> <b>Pump Intake From TOC: 46 ft</b> <b>Estimated Total Volume Pumped: 7000 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 100 ml/min</b> <b>Final Draw Down: 0 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 884189</b>
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## Test Notes:

Sample time =1200

## Weather Conditions:

Cold, cloudy,dry

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/7/2023 10:45 AM	00:00	5.37 pH	18.97 °C	356.91 µS/cm	8.34 mg/L	16.30 NTU	183.9 mV	37.61 ft	100.00 ml/min
2/7/2023 10:50 AM	05:00	5.32 pH	18.03 °C	271.17 µS/cm	4.18 mg/L	13.10 NTU	167.6 mV	37.61 ft	100.00 ml/min
2/7/2023 10:55 AM	10:00	5.31 pH	17.62 °C	319.27 µS/cm	3.63 mg/L	9.88 NTU	194.4 mV	37.61 ft	100.00 ml/min
2/7/2023 11:00 AM	15:00	5.29 pH	17.64 °C	321.65 µS/cm	3.13 mg/L	6.84 NTU	194.0 mV	37.61 ft	100.00 ml/min
2/7/2023 11:05 AM	20:00	5.29 pH	18.31 °C	321.42 µS/cm	3.03 mg/L	5.23 NTU	193.2 mV	37.61 ft	100.00 ml/min
2/7/2023 11:10 AM	25:00	5.31 pH	18.53 °C	320.63 µS/cm	3.14 mg/L	3.21 NTU	190.6 mV	37.61 ft	100.00 ml/min
2/7/2023 11:15 AM	30:00	5.33 pH	18.34 °C	321.41 µS/cm	3.49 mg/L	2.12 NTU	187.6 mV	37.61 ft	100.00 ml/min
2/7/2023 11:20 AM	35:00	5.31 pH	19.08 °C	321.43 µS/cm	3.30 mg/L	1.30 NTU	185.9 mV	37.61 ft	100.00 ml/min
2/7/2023 11:25 AM	40:00	5.25 pH	18.71 °C	320.09 µS/cm	1.45 mg/L	0.24 NTU	185.5 mV	37.61 ft	100.00 ml/min
2/7/2023 11:30 AM	45:00	5.24 pH	18.76 °C	322.45 µS/cm	1.30 mg/L	0.26 NTU	154.3 mV	37.61 ft	100.00 ml/min
2/7/2023 11:35 AM	50:00	5.24 pH	19.25 °C	318.90 µS/cm	1.15 mg/L	0.27 NTU	151.4 mV	37.61 ft	100.00 ml/min
2/7/2023 11:40 AM	55:00	5.24 pH	18.88 °C	323.23 µS/cm	1.13 mg/L	0.16 NTU	148.6 mV	37.61 ft	100.00 ml/min

2/7/2023 11:45 AM	01:00:00	5.24 pH	19.41 °C	322.41 µS/cm	1.08 mg/L	0.17 NTU	147.3 mV	37.61 ft	100.00 ml/min
2/7/2023 11:50 AM	01:05:00	5.24 pH	19.44 °C	321.28 µS/cm	1.05 mg/L	0.17 NTU	146.2 mV	37.61 ft	100.00 ml/min
2/7/2023 11:55 AM	01:10:00	5.23 pH	19.80 °C	323.78 µS/cm	1.03 mg/L	0.20 NTU	145.3 mV	37.61 ft	100.00 ml/min

## Samples

<b>Sample ID:</b> MCD-DGWC-8 EB-5	<b>Description:</b> TDS, Radium, Metals, Inorganics, Alkalinity TDS, Radium, Metals, Inorganics, Alkalinity
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Created using VuSitu from In-Situ, Inc.

# Low-Flow Test Report:

**Test Date / Time:** 2/3/2023 10:24:16 AM  
**Project:** Plant McDoughn January 2023 (7)  
**Operator Name:** Tiffany Messier

<b>Location Name: MCD-DGWC-9</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 23.73 ft</b> <b>Total Depth: 33.73 ft</b> <b>Initial Depth to Water: 25.21 ft</b>	<b>Pump Type: Bladder</b> <b>Tubing Type: LDPE</b> <b>Pump Intake From TOC: 32 ft</b> <b>Estimated Total Volume Pumped: 8000 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 100 ml/min</b> <b>Final Draw Down: 1.8 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 851413</b>
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## Test Notes:

**Weather Conditions:**  
Sunny 39

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
2/3/2023 10:24 AM	00:00	4.11 pH	15.88 °C	641.54 µS/cm	7.29 mg/L	46.10 NTU	272.4 mV	25.21 ft	100.00 ml/min
2/3/2023 10:29 AM	05:00	4.02 pH	17.68 °C	630.15 µS/cm	6.73 mg/L	38.80 NTU	297.1 mV	26.16 ft	100.00 ml/min
2/3/2023 10:34 AM	10:00	4.01 pH	17.85 °C	650.06 µS/cm	6.08 mg/L	25.30 NTU	300.9 mV	26.50 ft	100.00 ml/min
2/3/2023 10:39 AM	15:00	4.00 pH	17.77 °C	651.45 µS/cm	5.70 mg/L	23.80 NTU	398.1 mV	26.74 ft	100.00 ml/min
2/3/2023 10:44 AM	20:00	4.01 pH	17.81 °C	646.65 µS/cm	5.45 mg/L	18.80 NTU	300.8 mV	26.90 ft	100.00 ml/min
2/3/2023 10:49 AM	25:00	4.01 pH	17.79 °C	654.93 µS/cm	5.07 mg/L	13.40 NTU	403.3 mV	27.00 ft	100.00 ml/min
2/3/2023 10:54 AM	30:00	4.01 pH	17.72 °C	658.15 µS/cm	4.84 mg/L	9.42 NTU	407.8 mV	27.00 ft	100.00 ml/min
2/3/2023 10:59 AM	35:00	4.01 pH	17.96 °C	656.88 µS/cm	4.57 mg/L	9.46 NTU	410.3 mV	27.01 ft	100.00 ml/min
2/3/2023 11:04 AM	40:00	4.02 pH	17.82 °C	658.00 µS/cm	4.42 mg/L	7.57 NTU	406.6 mV	27.01 ft	100.00 ml/min
2/3/2023 11:09 AM	45:00	4.02 pH	17.63 °C	652.83 µS/cm	4.41 mg/L	9.85 NTU	360.8 mV	27.01 ft	100.00 ml/min
2/3/2023 11:14 AM	50:00	4.01 pH	17.56 °C	668.96 µS/cm	4.01 mg/L	6.57 NTU	377.8 mV	27.01 ft	100.00 ml/min
2/3/2023 11:19 AM	55:00	4.01 pH	17.67 °C	662.82 µS/cm	4.08 mg/L	5.43 NTU	387.2 mV	27.01 ft	100.00 ml/min
2/3/2023 11:24 AM	01:00:00	4.02 pH	17.47 °C	652.82 µS/cm	4.17 mg/L	2.68 NTU	270.9 mV	27.01 ft	100.00 ml/min

2/3/2023 11:29 AM	01:05:00	4.02 pH	17.49 °C	650.72 µS/cm	4.20 mg/L	1.67 NTU	310.5 mV	27.01 ft	100.00 ml/min
2/3/2023 11:34 AM	01:10:00	4.02 pH	15.89 °C	647.78 µS/cm	4.33 mg/L	1.80 NTU	295.7 mV	27.01 ft	100.00 ml/min
2/3/2023 11:39 AM	01:15:00	4.01 pH	17.75 °C	676.08 µS/cm	3.68 mg/L	0.97 NTU	339.5 mV	27.01 ft	100.00 ml/min
2/3/2023 11:44 AM	01:20:00	4.02 pH	18.17 °C	647.38 µS/cm	5.06 mg/L	0.88 NTU	277.5 mV	27.01 ft	100.00 ml/min

## Samples

Sample ID:	Description:
MCD-DGWC-9	TDS, Radium, Metals, Inorganics, Alkalinity

# Low-Flow Test Report:

**Test Date / Time:** 2/2/2023 9:27:19 AM  
**Project:** Plant McDoughn January 2023 (4)  
**Operator Name:** Tiffany Messier

<b>Location Name: MCD-DGWC-10</b> <b>Well Diameter: 2 in</b> <b>Casing Type: pvc</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 37.8 ft</b> <b>Total Depth: 47.8 ft</b> <b>Initial Depth to Water: 26.56 ft</b>	<b>Pump Type: Bladder</b> <b>Tubing Type: LDPE</b> <b>Pump Intake From TOC: 36.4 ft</b> <b>Estimated Total Volume Pumped: 5250 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 150 ml/min</b> <b>Final Draw Down: 0.69 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 851413</b>
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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	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
2/2/2023 9:27 AM	00:00	5.21 pH	16.43 °C	538.95 µS/cm	6.82 mg/L	1.85 NTU	243.3 mV	27.15 ft	150.00 ml/min
2/2/2023 9:32 AM	05:00	4.70 pH	17.69 °C	564.02 µS/cm	5.89 mg/L	1.08 NTU	250.6 mV	27.25 ft	150.00 ml/min
2/2/2023 9:37 AM	10:00	4.67 pH	17.67 °C	580.27 µS/cm	5.76 mg/L	0.76 NTU	239.0 mV	27.25 ft	150.00 ml/min
2/2/2023 9:42 AM	15:00	4.67 pH	17.63 °C	582.58 µS/cm	5.77 mg/L	0.49 NTU	223.9 mV	27.25 ft	150.00 ml/min
2/2/2023 9:47 AM	20:00	4.67 pH	17.59 °C	583.20 µS/cm	5.75 mg/L	0.50 NTU	277.0 mV	27.25 ft	150.00 ml/min
2/2/2023 9:52 AM	25:00	4.67 pH	17.72 °C	586.05 µS/cm	5.74 mg/L	0.37 NTU	212.3 mV	27.25 ft	150.00 ml/min
2/2/2023 9:57 AM	30:00	4.67 pH	17.67 °C	584.51 µS/cm	5.73 mg/L	0.73 NTU	261.9 mV	27.25 ft	150.00 ml/min
2/2/2023 10:02 AM	35:00	4.67 pH	17.69 °C	585.51 µS/cm	5.71 mg/L	0.67 NTU	204.4 mV	27.25 ft	150.00 ml/min

## Samples

Sample ID:	Description:
MCD-DGWC-10	TDS, Radium, Metals, Inorganics, Alkalinity

# Low-Flow Test Report:

**Test Date / Time:** 2/6/2023 3:11:01 PM  
**Project:** Plant McDonough Jan 23 SAE (11)  
**Operator Name:** Daniel Howard

<b>Location Name: MCD-DGWC-11</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 41.72 ft</b> <b>Total Depth: 51.72 ft</b> <b>Initial Depth to Water: 9.11 ft</b>	<b>Pump Type: Dedicated Bladder</b> <b>Tubing Type: HDPE</b> <b>Pump Intake From TOC: 23 ft</b> <b>Estimated Total Volume Pumped: 13750 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 150 ml/min</b> <b>Final Draw Down: 0.56 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 883536</b>
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**Test Notes:**  
Low flow. Sample time 1631.

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/6/2023 3:11 PM	00:00	5.55 pH	26.54 °C	535.41 µS/cm	0.89 mg/L	1.84 NTU	114.4 mV	9.11 ft	200.00 ml/min
2/6/2023 3:16 PM	05:00	5.49 pH	19.45 °C	652.78 µS/cm	0.34 mg/L	2.48 NTU	147.1 mV	9.74 ft	200.00 ml/min
2/6/2023 3:21 PM	10:00	5.47 pH	19.14 °C	667.58 µS/cm	0.31 mg/L	2.98 NTU	148.9 mV	9.74 ft	200.00 ml/min
2/6/2023 3:26 PM	15:00	5.46 pH	19.08 °C	666.31 µS/cm	0.24 mg/L	2.46 NTU	181.6 mV	9.74 ft	200.00 ml/min
2/6/2023 3:31 PM	20:00	5.46 pH	19.04 °C	665.96 µS/cm	0.22 mg/L	2.19 NTU	151.7 mV	9.78 ft	200.00 ml/min
2/6/2023 3:36 PM	25:00	5.45 pH	19.06 °C	669.98 µS/cm	0.19 mg/L	1.88 NTU	147.9 mV	9.78 ft	200.00 ml/min
2/6/2023 3:41 PM	30:00	5.45 pH	19.05 °C	669.61 µS/cm	0.19 mg/L	2.16 NTU	146.5 mV	9.79 ft	200.00 ml/min
2/6/2023 3:46 PM	35:00	5.45 pH	19.10 °C	669.00 µS/cm	0.18 mg/L	1.87 NTU	176.3 mV	9.71 ft	150.00 ml/min
2/6/2023 3:51 PM	40:00	5.45 pH	19.14 °C	668.25 µS/cm	0.29 mg/L	2.16 NTU	179.3 mV	9.67 ft	150.00 ml/min
2/6/2023 3:56 PM	45:00	5.44 pH	19.14 °C	668.46 µS/cm	0.26 mg/L	2.01 NTU	180.0 mV	9.67 ft	150.00 ml/min
2/6/2023 4:01 PM	50:00	5.45 pH	19.07 °C	665.29 µS/cm	0.34 mg/L	1.76 NTU	150.2 mV	9.67 ft	150.00 ml/min
2/6/2023 4:06 PM	55:00	5.45 pH	18.81 °C	672.24 µS/cm	0.22 mg/L	1.79 NTU	175.2 mV	9.67 ft	150.00 ml/min
2/6/2023 4:11 PM	01:00:00	5.45 pH	18.59 °C	671.60 µS/cm	0.21 mg/L	1.81 NTU	146.0 mV	9.67 ft	150.00 ml/min
2/6/2023 4:16 PM	01:05:00	5.45 pH	18.52 °C	675.74 µS/cm	0.21 mg/L	1.61 NTU	142.3 mV	9.67 ft	150.00 ml/min
2/6/2023 4:21 PM	01:10:00	5.45 pH	18.39 °C	675.75 µS/cm	0.18 mg/L	1.47 NTU	140.5 mV	9.67 ft	150.00 ml/min



2/6/2023 4:26 PM	01:15:00	5.45 pH	18.30 °C	676.09 µS/cm	0.18 mg/L	1.24 NTU	166.9 mV	9.67 ft	150.00 ml/min
2/6/2023 4:31 PM	01:20:00	5.45 pH	18.25 °C	676.65 µS/cm	0.18 mg/L	1.16 NTU	140.3 mV	9.67 ft	150.00 ml/min

### Samples

<b>Sample ID:</b> MCD-DGWC-11	<b>Description:</b> TDS, Radium, Metals, Inorganics, Alkalinity
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# Low-Flow Test Report:

**Test Date / Time:** 2/6/2023 9:44:54 AM  
**Project:** Plant McDonough Jan 23 SAE (10)  
**Operator Name:** Daniel Howard

<b>Location Name: MCD-DGWC-12</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 18.24 ft</b> <b>Total Depth: 28.24 ft</b> <b>Initial Depth to Water: 7.82 ft</b>	<b>Pump Type: Dedicated Bladder</b> <b>Tubing Type: HDPE</b> <b>Pump Intake From TOC: 23 ft</b> <b>Estimated Total Volume Pumped: 48000 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.35 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 883536</b>
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## Test Notes:

Low flow. DGWC-12 sample time 1345. Also collected Duplicated sample MCD-AP234-FD-3.

## Weather Conditions:

Clear, cool temp 47F

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/6/2023 9:44 AM	00:00	6.00 pH	14.26 °C	497.58 µS/cm	1.22 mg/L	235.00 NTU	55.8 mV	7.82 ft	200.00 ml/min
2/6/2023 9:49 AM	05:00	5.95 pH	15.77 °C	481.73 µS/cm	0.34 mg/L	125.00 NTU	48.6 mV	8.21 ft	200.00 ml/min
2/6/2023 9:54 AM	10:00	5.94 pH	16.02 °C	476.95 µS/cm	0.31 mg/L	74.60 NTU	45.9 mV	8.21 ft	200.00 ml/min
2/6/2023 9:59 AM	15:00	5.94 pH	16.06 °C	477.60 µS/cm	0.16 mg/L	60.20 NTU	41.3 mV	8.21 ft	200.00 ml/min
2/6/2023 10:04 AM	20:00	5.94 pH	16.24 °C	475.54 µS/cm	0.14 mg/L	42.90 NTU	38.6 mV	8.21 ft	200.00 ml/min
2/6/2023 10:09 AM	25:00	5.93 pH	16.47 °C	473.23 µS/cm	0.13 mg/L	32.20 NTU	38.5 mV	8.19 ft	200.00 ml/min
2/6/2023 10:14 AM	30:00	5.92 pH	16.58 °C	471.68 µS/cm	0.12 mg/L	28.10 NTU	37.4 mV	8.17 ft	200.00 ml/min
2/6/2023 10:19 AM	35:00	5.92 pH	16.76 °C	469.82 µS/cm	0.09 mg/L	24.00 NTU	38.1 mV	8.17 ft	200.00 ml/min
2/6/2023 10:24 AM	40:00	5.91 pH	16.84 °C	468.44 µS/cm	0.09 mg/L	19.30 NTU	39.1 mV	8.17 ft	200.00 ml/min
2/6/2023 10:29 AM	45:00	5.90 pH	16.93 °C	465.05 µS/cm	0.08 mg/L	16.30 NTU	39.7 mV	8.17 ft	200.00 ml/min
2/6/2023 10:34 AM	50:00	5.90 pH	17.02 °C	464.84 µS/cm	0.08 mg/L	15.00 NTU	39.8 mV	8.17 ft	200.00 ml/min
2/6/2023 10:39 AM	55:00	5.90 pH	17.06 °C	464.36 µS/cm	0.07 mg/L	13.10 NTU	38.5 mV	8.17 ft	200.00 ml/min
2/6/2023 10:44 AM	01:00:00	5.91 pH	17.14 °C	467.03 µS/cm	0.05 mg/L	10.50 NTU	37.9 mV	8.17 ft	200.00 ml/min

2/6/2023 10:49 AM	01:05:00	5.91 pH	17.27 °C	463.35 µS/cm	0.12 mg/L	11.60 NTU	39.7 mV	8.17 ft	200.00 ml/min
2/6/2023 10:54 AM	01:10:00	5.90 pH	17.31 °C	461.87 µS/cm	0.07 mg/L	10.10 NTU	39.8 mV	8.17 ft	200.00 ml/min
2/6/2023 10:59 AM	01:15:00	5.92 pH	17.31 °C	463.13 µS/cm	0.06 mg/L	9.14 NTU	38.3 mV	8.17 ft	200.00 ml/min
2/6/2023 11:04 AM	01:20:00	5.91 pH	17.41 °C	464.87 µS/cm	0.06 mg/L	8.34 NTU	38.6 mV	8.17 ft	200.00 ml/min
2/6/2023 11:09 AM	01:25:00	5.91 pH	17.53 °C	460.63 µS/cm	0.05 mg/L	8.58 NTU	39.0 mV	8.17 ft	200.00 ml/min
2/6/2023 11:14 AM	01:30:00	5.90 pH	17.63 °C	463.10 µS/cm	0.06 mg/L	6.85 NTU	40.4 mV	8.17 ft	200.00 ml/min
2/6/2023 11:19 AM	01:35:00	5.90 pH	17.67 °C	460.32 µS/cm	0.06 mg/L	7.73 NTU	41.6 mV	8.17 ft	200.00 ml/min
2/6/2023 11:24 AM	01:40:00	5.91 pH	17.63 °C	461.65 µS/cm	0.06 mg/L	6.71 NTU	39.3 mV	8.17 ft	200.00 ml/min
2/6/2023 11:29 AM	01:45:00	5.90 pH	17.64 °C	461.67 µS/cm	0.05 mg/L	6.56 NTU	41.6 mV	8.17 ft	200.00 ml/min
2/6/2023 11:34 AM	01:50:00	5.91 pH	17.67 °C	461.80 µS/cm	0.05 mg/L	6.27 NTU	40.1 mV	8.17 ft	200.00 ml/min
2/6/2023 11:39 AM	01:55:00	5.90 pH	17.67 °C	459.04 µS/cm	0.05 mg/L	6.83 NTU	42.2 mV	8.17 ft	200.00 ml/min
2/6/2023 11:44 AM	02:00:00	5.90 pH	17.72 °C	459.72 µS/cm	0.06 mg/L	6.11 NTU	42.2 mV	8.17 ft	200.00 ml/min
2/6/2023 11:49 AM	02:05:00	5.91 pH	17.81 °C	462.06 µS/cm	0.05 mg/L	5.85 NTU	41.8 mV	8.17 ft	200.00 ml/min
2/6/2023 11:54 AM	02:10:00	5.90 pH	17.85 °C	460.12 µS/cm	0.06 mg/L	6.99 NTU	42.7 mV	8.17 ft	200.00 ml/min
2/6/2023 11:59 AM	02:15:00	5.90 pH	17.90 °C	460.28 µS/cm	0.05 mg/L	6.17 NTU	44.1 mV	8.17 ft	200.00 ml/min
2/6/2023 12:04 PM	02:20:00	5.91 pH	17.96 °C	461.83 µS/cm	0.04 mg/L	5.53 NTU	42.4 mV	8.17 ft	200.00 ml/min
2/6/2023 12:09 PM	02:25:00	5.90 pH	17.94 °C	459.89 µS/cm	0.04 mg/L	4.93 NTU	44.0 mV	8.17 ft	200.00 ml/min
2/6/2023 12:14 PM	02:30:00	5.90 pH	17.94 °C	460.26 µS/cm	0.04 mg/L	4.80 NTU	42.2 mV	8.17 ft	200.00 ml/min
2/6/2023 12:19 PM	02:35:00	5.91 pH	17.94 °C	461.20 µS/cm	0.05 mg/L	4.84 NTU	42.7 mV	8.17 ft	200.00 ml/min
2/6/2023 12:24 PM	02:40:00	5.90 pH	17.99 °C	460.50 µS/cm	0.04 mg/L	5.28 NTU	42.6 mV	8.17 ft	200.00 ml/min
2/6/2023 12:29 PM	02:45:00	5.90 pH	18.07 °C	461.00 µS/cm	0.04 mg/L	4.61 NTU	43.9 mV	8.17 ft	200.00 ml/min
2/6/2023 12:34 PM	02:50:00	5.90 pH	18.07 °C	459.63 µS/cm	0.05 mg/L	5.38 NTU	43.4 mV	8.17 ft	200.00 ml/min
2/6/2023 12:39 PM	02:55:00	5.90 pH	18.04 °C	459.87 µS/cm	0.05 mg/L	4.96 NTU	45.1 mV	8.17 ft	200.00 ml/min
2/6/2023 12:44 PM	03:00:00	5.90 pH	18.07 °C	460.63 µS/cm	0.05 mg/L	4.91 NTU	44.5 mV	8.17 ft	200.00 ml/min
2/6/2023 12:49 PM	03:05:00	5.90 pH	18.05 °C	459.29 µS/cm	0.05 mg/L	4.77 NTU	45.5 mV	8.17 ft	200.00 ml/min
2/6/2023 12:54 PM	03:10:00	5.90 pH	18.12 °C	459.16 µS/cm	0.04 mg/L	4.92 NTU	44.5 mV	8.17 ft	200.00 ml/min
2/6/2023 12:59 PM	03:15:00	5.91 pH	18.10 °C	460.56 µS/cm	0.05 mg/L	4.42 NTU	43.4 mV	8.17 ft	200.00 ml/min
2/6/2023 1:04 PM	03:20:00	5.90 pH	18.10 °C	460.58 µS/cm	0.04 mg/L	4.85 NTU	45.0 mV	8.17 ft	200.00 ml/min
2/6/2023 1:09 PM	03:25:00	5.90 pH	18.05 °C	459.09 µS/cm	0.04 mg/L	4.67 NTU	45.0 mV	8.17 ft	200.00 ml/min

2/6/2023 1:14 PM	03:30:00	5.90 pH	18.10 °C	459.98 µS/cm	0.03 mg/L	4.51 NTU	44.5 mV	8.17 ft	200.00 ml/min
2/6/2023 1:19 PM	03:35:00	5.89 pH	18.10 °C	458.40 µS/cm	0.04 mg/L	4.75 NTU	46.5 mV	8.17 ft	200.00 ml/min
2/6/2023 1:24 PM	03:40:00	5.91 pH	18.08 °C	461.41 µS/cm	0.04 mg/L	4.20 NTU	44.3 mV	8.17 ft	200.00 ml/min
2/6/2023 1:29 PM	03:45:00	5.90 pH	18.06 °C	458.28 µS/cm	0.05 mg/L	4.15 NTU	45.8 mV	8.17 ft	200.00 ml/min
2/6/2023 1:34 PM	03:50:00	5.90 pH	18.12 °C	459.82 µS/cm	0.04 mg/L	4.09 NTU	45.7 mV	8.17 ft	200.00 ml/min
2/6/2023 1:39 PM	03:55:00	5.90 pH	18.12 °C	459.45 µS/cm	0.04 mg/L	4.17 NTU	45.3 mV	8.17 ft	200.00 ml/min
2/6/2023 1:44 PM	04:00:00	5.90 pH	18.07 °C	461.34 µS/cm	0.05 mg/L	3.96 NTU	45.2 mV	8.17 ft	200.00 ml/min

## Samples

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

MCD-AP234-FD-3: TDS, Radium, Metals, Inorganics, Alkalinity

# Low-Flow Test Report:

**Test Date / Time:** 2/1/2023 3:50:33 PM  
**Project:** Plant McDonough Jan 23 SAE (5)  
**Operator Name:** Daniel Howard

<b>Location Name:</b> MCD-DGWC-13 <b>Well Diameter:</b> 2 in <b>Casing Type:</b> PVC <b>Screen Length:</b> 10 ft <b>Top of Screen:</b> 36.66 ft <b>Total Depth:</b> 46.66 ft <b>Initial Depth to Water:</b> 34.4 ft	<b>Pump Type:</b> Peristaltic <b>Tubing Type:</b> LDPE <b>Pump Intake From TOC:</b> 41 ft <b>Estimated Total Volume Pumped:</b> 5000 ml <b>Flow Cell Volume:</b> 90 ml <b>Final Flow Rate:</b> 200 ml/min <b>Final Draw Down:</b> 0.22 ft	<b>Instrument Used:</b> Aqua TROLL 400 <b>Serial Number:</b> 883536
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**Test Notes:**  
Low flow. Sample time 1616.

**Weather Conditions:**  
Partly Sunny, Temp 56F

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/1/2023 3:50 PM	00:00	5.55 pH	19.66 °C	356.51 µS/cm	4.99 mg/L	1.30 NTU	132.7 mV	34.40 ft	200.00 ml/min
2/1/2023 3:55 PM	05:00	5.54 pH	18.92 °C	361.59 µS/cm	4.94 mg/L	0.60 NTU	131.3 mV	34.61 ft	200.00 ml/min
2/1/2023 4:00 PM	10:00	5.54 pH	18.83 °C	361.47 µS/cm	4.91 mg/L	0.94 NTU	130.5 mV	34.61 ft	200.00 ml/min
2/1/2023 4:05 PM	15:00	5.54 pH	18.74 °C	358.76 µS/cm	4.89 mg/L	0.35 NTU	156.7 mV	34.61 ft	200.00 ml/min
2/1/2023 4:10 PM	20:00	5.54 pH	18.76 °C	361.33 µS/cm	4.88 mg/L	0.41 NTU	130.8 mV	34.62 ft	200.00 ml/min
2/1/2023 4:15 PM	25:00	5.54 pH	18.83 °C	361.56 µS/cm	4.87 mg/L	0.32 NTU	129.5 mV	34.62 ft	200.00 ml/min

## Samples

<b>Sample ID:</b> MCD-DGWC-13	<b>Description:</b> TDS, Radium, Metals, Inorganics, Alkalinity
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# Low-Flow Test Report:

**Test Date / Time:** 2/1/2023 3:41:36 PM

**Project:** Plant McDonough January 2023 SAE (6)

**Operator Name:** Ever Guillen

<b>Location Name: MCD-DGWC-14</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 27.95 ft</b> <b>Total Depth: 37.95 ft</b> <b>Initial Depth to Water: 19.6 ft</b>	<b>Pump Type: Dedicated Bladder pump</b> <b>Tubing Type: HDPE</b> <b>Pump Intake From TOC: 32 ft</b> <b>Estimated Total Volume Pumped: 10000 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.23 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 884189</b>
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## Test Notes:

Sample time = 1635

## Weather Conditions:

Cold, cloudy, humid

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/1/2023 3:41 PM	00:00	6.54 pH	20.69 °C	16.72 µS/cm	7.62 mg/L	79.70 NTU	184.0 mV	19.60 ft	200.00 ml/min
2/1/2023 3:46 PM	05:00	5.74 pH	17.69 °C	17.72 µS/cm	4.31 mg/L	13.50 NTU	158.1 mV	19.83 ft	200.00 ml/min
2/1/2023 3:51 PM	10:00	5.72 pH	17.59 °C	18.01 µS/cm	4.08 mg/L	11.10 NTU	147.4 mV	19.83 ft	200.00 ml/min
2/1/2023 3:56 PM	15:00	5.73 pH	17.50 °C	18.15 µS/cm	4.08 mg/L	8.74 NTU	171.1 mV	19.83 ft	200.00 ml/min
2/1/2023 4:01 PM	20:00	5.74 pH	17.46 °C	18.03 µS/cm	4.07 mg/L	5.60 NTU	140.0 mV	19.83 ft	200.00 ml/min
2/1/2023 4:06 PM	25:00	5.74 pH	17.48 °C	18.06 µS/cm	4.07 mg/L	3.60 NTU	135.7 mV	19.83 ft	200.00 ml/min
2/1/2023 4:11 PM	30:00	5.73 pH	17.50 °C	18.05 µS/cm	4.07 mg/L	2.09 NTU	133.5 mV	19.83 ft	200.00 ml/min
2/1/2023 4:16 PM	35:00	5.73 pH	17.55 °C	18.16 µS/cm	4.07 mg/L	1.27 NTU	155.8 mV	19.83 ft	200.00 ml/min
2/1/2023 4:21 PM	40:00	5.75 pH	17.37 °C	18.13 µS/cm	4.11 mg/L	0.96 NTU	156.6 mV	19.83 ft	200.00 ml/min
2/1/2023 4:26 PM	45:00	5.81 pH	17.28 °C	18.10 µS/cm	4.24 mg/L	0.84 NTU	132.3 mV	19.83 ft	200.00 ml/min
2/1/2023 4:31 PM	50:00	5.87 pH	17.45 °C	18.23 µS/cm	4.37 mg/L	0.73 NTU	151.3 mV	19.83 ft	200.00 ml/min

**Samples**

<b>Sample ID:</b> MCD-DGWC-14	<b>Description:</b> TDS, Metals, Radium, Inorganics, Alkalinity
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Created using VuSitu from In-Situ, Inc.

Test Properties

Test Type = Low-Flow Test  
Test Date / Time = 2023-02-02 13:54:01  
Time Offset = -05:00:00  
Operator Name = Tiffany Messier  
Project = Plant McDough January 2023 (6)  
Initial Depth to Water = 41.15 ft  
Flow Cell Volume = 90 ml  
Final Draw Down = 2.65 ft  
Estimated Total Volume Pumped = 2500 ml

Pump Properties

Pump Type = Bladder  
Flow Rate = 100 ml/min  
Final Flow Rate = 100 ml/min  
Pump Intake From TOC = 65 ft

Tubing Properties

Tubing Type = LDPE

Location Properties

Location Name = MCD-DGWC-15  
Location ID = 42855d5d-c923-4d93-9a21-23affc85463e

Well Properties

Well Diameter = 2 in  
Casing Type = PVC  
Screen Length = 10 ft  
Total Depth = 70.83 ft  
Top of Screen = 60.83 ft

Instrument Properties

Device Model = Aqua TROLL 400  
Device SN = 851413

Date Time	Elapsed Time	Depth to Water (ft)	Flow (ml/min)	Turbidity (NTU)	RDO Concentration (mg/L) (849197)	Temperature (°C)	Specific Conductivity	Total Dissolved Solids (ppt) (851413)	Pressure (psi)	pH (pH) (21483)	pH mV (mV)	ORP (mV) (21483)
2/2/2023 13:54	0:00:00	41.15	100	8.41	0.9831611	17.3633	441.8144	0.2871794	28.08838	5.846414	64.12128	123.6453
2/2/2023 13:59	0:05:00	43.61	100	3.87	0.4942038	17.76266	430.5625	0.2798656	28.08481	5.811357	66.18304	151.4834
2/2/2023 14:04	0:10:00	43.76	100	0.98	0.483123	17.61369	439.326	0.2855619	28.08949	5.820344	65.63336	140.7521
2/2/2023 14:09	0:15:00	43.76	100	1.18	0.4482132	17.72074	433.8147	0.2819796	28.09435	5.860518	63.39009	130.5249
2/2/2023 14:14	0:20:00	43.8	100	0.72	0.4379499	17.67659	436.1881	0.2835223	28.10602	5.857607	63.55311	129.5636
2/2/2023 14:19	0:25:00	43.8	100	0.55	0.4046971	17.7591	435.725	0.2832213	28.11372	5.859772	63.45069	130.511

Samples

MCD-DGWC-15:TDS, Radium, Metals,Inorganics, Alkalinity



# Low-Flow Test Report:

**Test Date / Time:** 2/6/2023 10:12:19 AM

**Project:** Plant McDonough January 2023 SAE (8)

**Operator Name:** Taylor Johnson

<b>Location Name: MCD-DGWC-17</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 37.95 ft</b> <b>Total Depth: 47.95 ft</b> <b>Initial Depth to Water: 36.91 ft</b>	<b>Pump Type: QED Dedicated</b> <b>Tubing Type: HDPE</b> <b>Pump Intake From TOC: 42.71 ft</b> <b>Estimated Total Volume Pumped: 4630.5 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 135 ml/min</b> <b>Final Draw Down: 0.16 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 883553</b>
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## Test Notes:

Pre purged 1.5 liters

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	
2/6/2023 10:12 AM	00:00	5.15 pH	18.10 °C	630.77 µS/cm	1.49 mg/L	5.00 NTU	148.8 mV	36.91 ft	135.00 ml/min
2/6/2023 10:16 AM	04:00	5.15 pH	18.70 °C	620.13 µS/cm	1.33 mg/L	1.63 NTU	120.6 mV	37.04 ft	135.00 ml/min
2/6/2023 10:20 AM	08:00	5.14 pH	18.78 °C	619.58 µS/cm	1.00 mg/L	1.24 NTU	109.9 mV	37.05 ft	135.00 ml/min
2/6/2023 10:24 AM	12:00	5.13 pH	18.88 °C	619.75 µS/cm	0.81 mg/L	0.68 NTU	103.7 mV	37.05 ft	135.00 ml/min
2/6/2023 10:26 AM	14:18	5.13 pH	18.79 °C	620.86 µS/cm	0.73 mg/L	0.77 NTU	101.2 mV	37.06 ft	135.00 ml/min
2/6/2023 10:30 AM	18:18	5.13 pH	18.83 °C	620.30 µS/cm	0.64 mg/L	0.78 NTU	98.3 mV	37.04 ft	135.00 ml/min
2/6/2023 10:34 AM	22:18	5.13 pH	19.02 °C	619.58 µS/cm	0.59 mg/L	0.66 NTU	95.6 mV	37.06 ft	135.00 ml/min
2/6/2023 10:38 AM	26:18	5.13 pH	19.06 °C	619.49 µS/cm	0.56 mg/L	0.55 NTU	93.1 mV	37.06 ft	135.00 ml/min
2/6/2023 10:42 AM	30:18	5.13 pH	19.14 °C	618.64 µS/cm	0.53 mg/L	0.65 NTU	95.2 mV	37.07 ft	135.00 ml/min
2/6/2023 10:46 AM	34:18	5.13 pH	19.23 °C	617.83 µS/cm	0.51 mg/L	0.57 NTU	92.6 mV	37.07 ft	135.00 ml/min

## Samples

Sample ID:	Description:
MCD-DGWC-17	TDS, Radium, metals, inorganics, alkalinity

# Low-Flow Test Report:

**Test Date / Time:** 2/6/2023 12:33:33 PM

**Project:** Plant McDonough January 2023 SAE (9)

**Operator Name:** Taylor Johnson

<b>Location Name: MCD-DGWC-19</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 33.23 ft</b> <b>Total Depth: 43.23 ft</b> <b>Initial Depth to Water: 25.54 ft</b>	<b>Pump Type: QED Dedicated</b> <b>Tubing Type: HDPE</b> <b>Pump Intake From TOC: 38 ft</b> <b>Estimated Total Volume Pumped: 6240 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 140 ml/min</b> <b>Final Draw Down: 0.15 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 883553</b>
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## Test Notes:

Pre purged 2 liters

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	
2/6/2023 12:33 PM	00:00	4.79 pH	19.24 °C	813.23 µS/cm	0.26 mg/L	5.00 NTU	363.1 mV	25.54 ft	140.00 ml/min
2/6/2023 12:37 PM	04:00	4.80 pH	19.54 °C	803.30 µS/cm	0.23 mg/L	1.71 NTU	317.5 mV	25.66 ft	140.00 ml/min
2/6/2023 12:41 PM	08:00	4.81 pH	19.59 °C	807.04 µS/cm	0.21 mg/L	2.08 NTU	316.8 mV	25.68 ft	140.00 ml/min
2/6/2023 12:45 PM	12:00	4.81 pH	19.58 °C	809.11 µS/cm	0.20 mg/L	1.56 NTU	317.0 mV	25.66 ft	140.00 ml/min
2/6/2023 12:49 PM	16:00	4.82 pH	19.51 °C	810.86 µS/cm	0.21 mg/L	1.43 NTU	324.3 mV	25.69 ft	140.00 ml/min

## Samples

Sample ID:	Description:
MCD-DGWC-19	TDS, Radium, metals, inorganics, alkalinity

# Low-Flow Test Report:

Test Date / Time: 2/7/2023 9:52:27 AM

Project: Plant McDonough January 2023 SAE (11)

Operator Name: Taylor Johnson

<b>Location Name: MCD-DGWC-20</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 33.4 ft</b> <b>Total Depth: 43.4 ft</b> <b>Initial Depth to Water: 23.13 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: HDPE</b> <b>Pump Intake From TOC: 38 ft</b> <b>Estimated Total Volume Pumped: 8800 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 1.26 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 883553</b>
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## Test Notes:

Pre purged 1.5 liters

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	
2/7/2023 9:52 AM	00:00	4.35 pH	18.78 °C	995.39 µS/cm	0.11 mg/L	5.00 NTU	232.7 mV	23.13 ft	200.00 ml/min
2/7/2023 9:56 AM	04:00	4.35 pH	19.01 °C	996.09 µS/cm	0.09 mg/L	6.12 NTU	219.5 mV	24.24 ft	200.00 ml/min
2/7/2023 10:00 AM	08:00	4.35 pH	19.05 °C	999.89 µS/cm	0.06 mg/L	4.04 NTU	227.3 mV	24.28 ft	200.00 ml/min
2/7/2023 10:04 AM	12:00	4.33 pH	18.78 °C	1,010.6 µS/cm	0.06 mg/L	4.15 NTU	245.6 mV	24.34 ft	200.00 ml/min
2/7/2023 10:08 AM	16:00	4.34 pH	18.96 °C	1,008.0 µS/cm	0.05 mg/L	4.15 NTU	265.1 mV	24.36 ft	200.00 ml/min
2/7/2023 10:12 AM	20:00	4.35 pH	19.14 °C	1,007.1 µS/cm	0.05 mg/L	3.77 NTU	280.7 mV	24.35 ft	200.00 ml/min
2/7/2023 10:16 AM	24:00	4.34 pH	19.14 °C	1,007.5 µS/cm	0.05 mg/L	2.74 NTU	289.1 mV	24.36 ft	200.00 ml/min
2/7/2023 10:20 AM	28:00	4.34 pH	19.39 °C	1,010.2 µS/cm	0.05 mg/L	2.15 NTU	306.2 mV	24.36 ft	200.00 ml/min
2/7/2023 10:24 AM	32:00	4.34 pH	19.35 °C	1,014.1 µS/cm	0.04 mg/L	2.44 NTU	319.6 mV	24.39 ft	200.00 ml/min
2/7/2023 10:28 AM	36:00	4.34 pH	19.20 °C	1,015.7 µS/cm	0.04 mg/L	2.01 NTU	332.0 mV	24.39 ft	200.00 ml/min
2/7/2023 10:32 AM	40:00	4.33 pH	19.23 °C	1,017.9 µS/cm	0.04 mg/L	2.35 NTU	342.0 mV	24.39 ft	200.00 ml/min
2/7/2023 10:36 AM	44:00	4.33 pH	19.14 °C	1,019.8 µS/cm	0.04 mg/L	1.99 NTU	346.4 mV	24.39 ft	200.00 ml/min

## Samples

Sample ID:	Description:
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MCD-DGWC-20	TDS, Radium, inorganics, metals, alkalinity
MCD-AP234-FD-6	TDS, Radium, inorganics, metals, alkalinity

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# Low-Flow Test Report:

**Test Date / Time:** 2/7/2023 2:39:36 PM

**Project:** Plant McDonough January 2023 SAE (13)

**Operator Name:** Taylor Johnson

<b>Location Name: MCD-DGWC-21</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 62.55 ft</b> <b>Total Depth: 72.55 ft</b> <b>Initial Depth to Water: 18.12 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: HDPE</b> <b>Pump Intake From TOC: 67.55 ft</b> <b>Estimated Total Volume Pumped: 3200 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.34 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 883553</b>
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## Test Notes:

Pre purged 1.5 liters

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	
2/7/2023 2:39 PM	00:00	5.72 pH	20.21 °C	658.30 µS/cm	0.44 mg/L	5.00 NTU	159.2 mV	18.12 ft	200.00 ml/min
2/7/2023 2:43 PM	04:00	5.72 pH	20.14 °C	651.14 µS/cm	0.14 mg/L	1.30 NTU	151.0 mV	18.44 ft	200.00 ml/min
2/7/2023 2:47 PM	08:00	5.71 pH	19.99 °C	655.56 µS/cm	0.12 mg/L	0.56 NTU	153.0 mV	18.44 ft	200.00 ml/min
2/7/2023 2:51 PM	12:00	5.71 pH	19.90 °C	658.36 µS/cm	0.13 mg/L	0.86 NTU	156.2 mV	18.44 ft	200.00 ml/min
2/7/2023 2:55 PM	16:00	5.70 pH	19.94 °C	661.37 µS/cm	0.10 mg/L	0.80 NTU	159.2 mV	18.46 ft	200.00 ml/min

## Samples

Sample ID:	Description:
MCD-DGWC-21	TDS, Radium, metals, inorganics, alkalinity

# Low-Flow Test Report:

Test Date / Time: 2/6/2023 2:23:42 PM

Project: Plant McDonough January 2023 SAE (2)

Operator Name: Joe Booth

<b>Location Name: MCD-DGWC-22</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 53.45 ft</b> <b>Total Depth: 63.45 ft</b> <b>Initial Depth to Water: 20.96 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: Hdpe</b> <b>Pump Intake From TOC: 58 ft</b> <b>Estimated Total Volume Pumped: 7000 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 175 ml/min</b> <b>Final Draw Down: 0.22 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 843593</b>
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## Test Notes:

Prepurge 2 liters

## Weather Conditions:

Sunny 65

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 0.2	+/- 5	+/- 1000 %	+/- 0.3	
2/6/2023 2:23 PM	00:00	5.79 pH	19.95 °C	681.95 µS/cm	3.19 mg/L	5.87 NTU	93.7 mV	20.96 ft	175.00 ml/min
2/6/2023 2:27 PM	04:00	5.71 pH	19.46 °C	700.33 µS/cm	2.48 mg/L	1.76 NTU	101.2 mV	21.18 ft	175.00 ml/min
2/6/2023 2:31 PM	08:00	5.70 pH	19.32 °C	697.48 µS/cm	2.12 mg/L	1.07 NTU	109.8 mV	21.18 ft	175.00 ml/min
2/6/2023 2:35 PM	12:00	5.68 pH	19.24 °C	696.64 µS/cm	1.91 mg/L	0.68 NTU	117.6 mV	21.18 ft	175.00 ml/min
2/6/2023 2:39 PM	16:00	5.67 pH	19.24 °C	693.84 µS/cm	1.66 mg/L	0.88 NTU	122.8 mV	21.18 ft	175.00 ml/min
2/6/2023 2:43 PM	20:00	5.66 pH	19.17 °C	692.56 µS/cm	1.48 mg/L	0.68 NTU	125.5 mV	21.18 ft	175.00 ml/min
2/6/2023 2:47 PM	24:00	5.65 pH	19.15 °C	693.19 µS/cm	1.36 mg/L	0.74 NTU	128.6 mV	21.18 ft	175.00 ml/min
2/6/2023 2:51 PM	28:00	5.64 pH	19.12 °C	694.55 µS/cm	1.22 mg/L	0.76 NTU	130.6 mV	21.18 ft	175.00 ml/min
2/6/2023 2:55 PM	32:00	5.64 pH	19.13 °C	691.49 µS/cm	1.07 mg/L	0.83 NTU	132.2 mV	21.18 ft	175.00 ml/min
2/6/2023 2:59 PM	36:00	5.64 pH	19.06 °C	690.36 µS/cm	0.98 mg/L	0.75 NTU	136.9 mV	21.18 ft	175.00 ml/min
2/6/2023 3:03 PM	40:00	5.64 pH	19.08 °C	690.34 µS/cm	0.92 mg/L	0.71 NTU	141.6 mV	21.18 ft	175.00 ml/min

## Samples

Sample ID:	Description:
MCD-DGWC-22	Metals, TDS, alkalinity, Inorganics, radium

Created using VuSitu from In-Situ, Inc.

# Low-Flow Test Report:

Test Date / Time: 2/6/2023 1:32:57 PM

Project: Jan. SAE 2023 McDonough (5)

Operator Name: Mark Mann

<b>Location Name: MCD-DGWC-23</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 53.26 ft</b> <b>Total Depth: 63.26 ft</b> <b>Initial Depth to Water: 18.48 ft</b>	<b>Pump Type: Bladder</b> <b>Tubing Type: Tru-Poly</b> <b>Pump Intake From TOC: 54.63 ft</b> <b>Estimated Total Volume Pumped: 9750 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 250 ml/min</b> <b>Final Draw Down: 3.54 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 851413</b>
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## Test Notes:

## Weather Conditions:

Sunny

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/6/2023 1:32 PM	00:00	6.33 pH	19.66 °C	687.48 µS/cm	3.76 mg/L	0.79 NTU	38.1 mV	18.48 ft	300.00 ml/min
2/6/2023 1:37 PM	05:00	6.00 pH	17.99 °C	728.95 µS/cm	0.57 mg/L	1.11 NTU	105.3 mV	20.08 ft	300.00 ml/min
2/6/2023 1:42 PM	10:00	5.96 pH	17.70 °C	708.15 µS/cm	0.56 mg/L	0.66 NTU	125.4 mV	21.19 ft	300.00 ml/min
2/6/2023 1:47 PM	15:00	5.93 pH	17.81 °C	706.30 µS/cm	0.31 mg/L	1.01 NTU	124.3 mV	21.82 ft	300.00 ml/min
2/6/2023 1:52 PM	20:00	5.94 pH	17.70 °C	710.57 µS/cm	0.26 mg/L	0.78 NTU	146.9 mV	22.46 ft	250.00 ml/min
2/6/2023 1:57 PM	25:00	5.95 pH	17.59 °C	706.74 µS/cm	0.30 mg/L	0.53 NTU	129.4 mV	22.03 ft	250.00 ml/min
2/6/2023 2:02 PM	30:00	5.96 pH	17.72 °C	717.38 µS/cm	0.29 mg/L	0.46 NTU	170.7 mV	21.85 ft	250.00 ml/min
2/6/2023 2:07 PM	35:00	5.97 pH	17.80 °C	722.73 µS/cm	0.25 mg/L	0.38 NTU	130.1 mV	22.02 ft	250.00 ml/min

## Samples

Sample ID:	Description:
MCD-DGWC-23	TDS, Radium, Metals, Inorganics, Alkalinity
FD-5	TDS, Radium, Metals, Inorganics, Alkalinity



Test Properties

Test Type = Low-Flow Test  
Test Date / Time = 2023-02-01 14:26:40  
Time Offset = -05:00:00  
Operator Name = Tiffany Messier  
Project = Plant McDough January 2023 (3)  
Initial Depth to Water = 29.74 ft  
Flow Cell Volume = 90 ml  
Final Draw Down = 2.26 ft  
Estimated Total Volume Pumped = 6000 ml

Pump Properties

Pump Type = Bladder  
Flow Rate = 150 ml/min  
Final Flow Rate = 150 ml/min  
Pump Intake From TOC = 36.4 ft

Tubing Properties

Tubing Type = LDPE

Location Properties

Location Name = MCD-DGWC-42  
Location ID = fab31034-c709-4cca-a50b-0de987bcdcd1

Well Properties

Well Diameter = 2 ft  
Casing Type = PVC  
Screen Length = 10 ft  
Total Depth = 52.49 ft  
Top of Screen = 42.49 ft

Instrument Properties

Device Model = Aqua TROLL 400  
Device SN = 851413

Date Time	Elapsed Time	Depth to Water (ft)	Flow (ml/min)	Turbidity (NTU)	RDO Concentration (mg/L) (849197)	Temperature (°C) (851413)	Specific Conductivity (µS/cm) (851413)	Total Dissolved Solids (ppt)	Pressure (psi) (850987)	pH (pH) (21483)	ORP (mV) (21483)
2/1/2023 14:26	0:00:00	31.93	150	24.3	4.358506	18.48002	859.3788	0.5585963	28.22017	5.5629	156.99
2/1/2023 14:31	0:05:00	32.2	150	10.07	0.3091353	19.07091	839.7931	0.5458655	28.14754	5.24673	202.1244
2/1/2023 14:36	0:10:00	32.3	150	4.85	0.2266223	18.87724	850.5751	0.5528738	28.22625	5.219364	193.0198
2/1/2023 14:41	0:15:00	32.15	150	2.79	0.2082443	18.84541	850.0203	0.5525131	28.22546	5.204967	187.3158
2/1/2023 14:46	0:20:00	32	150	2.68	0.2001165	18.85943	851.2051	0.5532833	28.2628	5.196719	183.1185
2/1/2023 14:51	0:25:00	32	150	1.41	0.1969391	18.83317	850.0859	0.5525559	28.21827	5.193325	227.1617
2/1/2023 14:56	0:30:00	32	150	1.26	0.1944932	18.91376	850.4894	0.5528181	28.23798	5.193424	176.4943
2/1/2023 15:01	0:35:00	32	150	1.05	0.2140077	19.05799	847.7767	0.5510549	28.23463	5.195343	221.8489
2/1/2023 15:06	0:40:00	32	150	0.75	0.2605216	18.85543	849.5519	0.5522087	28.22339	5.170278	224.0489

Samples

MCD-DGWC-42: TDS, Radium, Metals, Inorganics, Alkalinity  
FD-01: TDS, Radium, Metals, Inorganics, Alkalinity

Notes

Test Notes: FD-01  
Weather Conditions: Partly cloudy 60

# Low-Flow Test Report:

**Test Date / Time:** 2/3/2023 12:22:19 PM  
**Project:** Plant McDonough Jan 23 SAE (9)  
**Operator Name:** Daniel Howard

<b>Location Name: MCD-DGWC-47</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 21.93 ft</b> <b>Total Depth: 31.93 ft</b> <b>Initial Depth to Water: 15.64 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: LDPE</b> <b>Pump Intake From TOC: 26 ft</b> <b>Estimated Total Volume Pumped: 3750 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 150 ml/min</b> <b>Final Draw Down: 1.82 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 883536</b>
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**Test Notes:**  
Low flow. Sample time 1247.

**Weather Conditions:**  
Windy, clear, temp 48F

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/3/2023 12:22 PM	00:00	3.93 pH	16.65 °C	351.00 µS/cm	1.77 mg/L	1.62 NTU	330.0 mV	15.64 ft	150.00 ml/min
2/3/2023 12:27 PM	05:00	3.86 pH	14.17 °C	368.57 µS/cm	0.51 mg/L	1.25 NTU	388.2 mV	17.03 ft	150.00 ml/min
2/3/2023 12:32 PM	10:00	3.85 pH	14.44 °C	366.52 µS/cm	0.40 mg/L	0.85 NTU	437.3 mV	17.20 ft	150.00 ml/min
2/3/2023 12:37 PM	15:00	3.86 pH	14.43 °C	367.52 µS/cm	0.31 mg/L	1.04 NTU	388.1 mV	17.34 ft	150.00 ml/min
2/3/2023 12:42 PM	20:00	3.87 pH	14.49 °C	368.35 µS/cm	0.27 mg/L	0.50 NTU	384.2 mV	17.44 ft	150.00 ml/min
2/3/2023 12:47 PM	25:00	3.88 pH	14.62 °C	363.61 µS/cm	0.24 mg/L	0.80 NTU	408.8 mV	17.46 ft	150.00 ml/min

## Samples

Sample ID:	Description:
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# Low-Flow Test Report:

**Test Date / Time:** 2/3/2023 9:31:42 AM

**Project:** Plant McDonough January 2023 SAE (6)

**Operator Name:** Taylor Johnson

<b>Location Name: MCD-DGWC-48</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 23.49 ft</b> <b>Total Depth: 33.49 ft</b> <b>Initial Depth to Water: 13.83 ft</b>	<b>Pump Type: QED Dedicated</b> <b>Tubing Type: HDPE</b> <b>Pump Intake From TOC: 42.71 ft</b> <b>Estimated Total Volume Pumped: 3200 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 1.36 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 883553</b>
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## Test Notes:

Pre purged 2 liters

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	
2/3/2023 9:31 AM	00:00	4.16 pH	18.05 °C	653.61 µS/cm	0.12 mg/L	5.00 NTU	304.2 mV	13.83 ft	200.00 ml/min
2/3/2023 9:35 AM	04:00	4.17 pH	17.95 °C	644.46 µS/cm	0.10 mg/L	0.83 NTU	293.0 mV	15.74 ft	200.00 ml/min
2/3/2023 9:39 AM	08:00	4.18 pH	18.05 °C	642.73 µS/cm	0.10 mg/L	0.52 NTU	283.0 mV	15.59 ft	200.00 ml/min
2/3/2023 9:43 AM	12:00	4.20 pH	17.89 °C	646.11 µS/cm	0.09 mg/L	0.59 NTU	276.7 mV	15.69 ft	200.00 ml/min
2/3/2023 9:47 AM	16:00	4.20 pH	18.00 °C	648.24 µS/cm	0.08 mg/L	0.81 NTU	273.9 mV	15.19 ft	200.00 ml/min

## Samples

Sample ID:	Description:
MCD-DCGWC-48	TDS, RAD, Metals, Alkalinity, inorganics

# Low-Flow Test Report:

**Test Date / Time:** 2/7/2023 3:57:56 PM  
**Project:** Plant McDonough Jan 23 SAE (14)  
**Operator Name:** Daniel Howard

<b>Location Name: MCD-B-56</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 37.9 ft</b> <b>Total Depth: 47.9 ft</b> <b>Initial Depth to Water: 27.26 ft</b>	<b>Pump Type: Bladder</b> <b>Tubing Type: LDPE</b> <b>Pump Intake From TOC: 42 ft</b> <b>Estimated Total Volume Pumped: 9000 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 1.06 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 883536</b>
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**Test Notes:**  
Low flow. Sample time 1643.

**Weather Conditions:**  
Partly Sunny, temp 68F

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/7/2023 3:57 PM	00:00	4.82 pH	21.04 °C	545.38 µS/cm	1.70 mg/L	80.10 NTU	202.0 mV	27.26 ft	200.00 ml/min
2/7/2023 4:02 PM	05:00	4.57 pH	18.41 °C	561.41 µS/cm	0.35 mg/L	50.20 NTU	222.0 mV	28.21 ft	200.00 ml/min
2/7/2023 4:07 PM	10:00	4.56 pH	18.43 °C	574.24 µS/cm	0.17 mg/L	33.10 NTU	260.3 mV	28.21 ft	200.00 ml/min
2/7/2023 4:12 PM	15:00	4.56 pH	18.28 °C	578.61 µS/cm	0.11 mg/L	13.30 NTU	214.7 mV	28.26 ft	200.00 ml/min
2/7/2023 4:17 PM	20:00	4.56 pH	18.27 °C	577.66 µS/cm	0.08 mg/L	9.25 NTU	250.6 mV	28.28 ft	200.00 ml/min
2/7/2023 4:22 PM	25:00	4.56 pH	18.25 °C	581.28 µS/cm	0.06 mg/L	5.96 NTU	205.1 mV	28.28 ft	200.00 ml/min
2/7/2023 4:27 PM	30:00	4.55 pH	18.18 °C	581.18 µS/cm	0.04 mg/L	6.23 NTU	240.1 mV	28.32 ft	200.00 ml/min
2/7/2023 4:32 PM	35:00	4.55 pH	18.16 °C	583.59 µS/cm	0.03 mg/L	5.46 NTU	197.0 mV	28.32 ft	200.00 ml/min
2/7/2023 4:37 PM	40:00	4.55 pH	18.11 °C	582.70 µS/cm	0.03 mg/L	4.48 NTU	192.9 mV	28.32 ft	200.00 ml/min
2/7/2023 4:42 PM	45:00	4.55 pH	18.04 °C	582.78 µS/cm	0.02 mg/L	4.08 NTU	189.3 mV	28.32 ft	200.00 ml/min

## Samples

<b>Sample ID:</b>	MCD-B56	<b>Description:</b>	TDS, Radium, Metals, Inorganics, Alkalinity
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# Low-Flow Test Report:

Test Date / Time: 2/2/2023 1:09:25 PM

Project: Plant McDonough January 2023 SAE

Operator Name: Joe Booth

<b>Location Name: MCD-B-62</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 29.67 ft</b> <b>Total Depth: 39.67 ft</b> <b>Initial Depth to Water: 15.57 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: Hope</b> <b>Pump Intake From TOC: 35 ft</b> <b>Estimated Total Volume Pumped: 7672.667 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 170 ml/min</b> <b>Final Draw Down: 0.34 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 843593</b>
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## Test Notes:

Prepurge 2 liters

## Weather Conditions:

Rainy

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 0.2	+/- 5	+/- 1000 %	+/- 0.3	
2/2/2023 1:09 PM	00:00	6.70 pH	17.19 °C	386.84 µS/cm	0.22 mg/L	52.60 NTU	-59.5 mV	15.57 ft	170.00 ml/min
2/2/2023 1:10 PM	01:08	6.67 pH	17.15 °C	362.79 µS/cm	0.25 mg/L	52.60 NTU	-74.8 mV	15.57 ft	170.00 ml/min
2/2/2023 1:14 PM	05:08	6.54 pH	17.21 °C	301.35 µS/cm	0.37 mg/L	41.10 NTU	-73.7 mV	15.91 ft	170.00 ml/min
2/2/2023 1:18 PM	09:08	6.43 pH	17.23 °C	266.95 µS/cm	0.28 mg/L	20.80 NTU	-54.4 mV	15.91 ft	170.00 ml/min
2/2/2023 1:22 PM	13:08	6.39 pH	17.29 °C	252.64 µS/cm	0.33 mg/L	19.20 NTU	-51.4 mV	15.91 ft	170.00 ml/min
2/2/2023 1:26 PM	17:08	6.38 pH	17.30 °C	247.32 µS/cm	0.28 mg/L	13.30 NTU	-49.5 mV	15.91 ft	170.00 ml/min
2/2/2023 1:30 PM	21:08	6.36 pH	17.31 °C	240.98 µS/cm	0.22 mg/L	10.70 NTU	-49.2 mV	15.91 ft	170.00 ml/min
2/2/2023 1:34 PM	25:08	6.35 pH	17.32 °C	238.83 µS/cm	0.19 mg/L	7.56 NTU	-48.5 mV	15.91 ft	170.00 ml/min
2/2/2023 1:38 PM	29:08	6.35 pH	17.36 °C	234.63 µS/cm	0.20 mg/L	7.34 NTU	-47.5 mV	15.91 ft	170.00 ml/min
2/2/2023 1:42 PM	33:08	6.35 pH	17.36 °C	232.61 µS/cm	0.15 mg/L	6.03 NTU	-47.1 mV	15.91 ft	170.00 ml/min
2/2/2023 1:46 PM	37:08	6.33 pH	17.36 °C	231.43 µS/cm	0.15 mg/L	4.63 NTU	-46.4 mV	15.91 ft	170.00 ml/min
2/2/2023 1:50 PM	41:08	6.34 pH	17.33 °C	228.61 µS/cm	0.16 mg/L		-46.0 mV	15.91 ft	170.00 ml/min
2/2/2023 1:54 PM	45:08	6.31 pH	16.85 °C	156.68 µS/cm	9.37 mg/L		-38.5 mV	15.91 ft	170.00 ml/min

**Samples**

Sample ID:	Description:
MCD-B-62	Metals, TDS, Alkalinity, Inorganics, radium

# Low-Flow Test Report:

Test Date / Time: 2/2/2023 10:16:05 AM

Project: Plant McDonough January 2023 SAE (7)

Operator Name: Ever Guillen

<b>Location Name: MCD-B-63</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 36.15 ft</b> <b>Total Depth: 46.15 ft</b> <b>Initial Depth to Water: 29.26 ft</b>	<b>Pump Type: Bladder pump</b> <b>Tubing Type: PE</b> <b>Pump Intake From TOC: 41 ft</b> <b>Estimated Total Volume Pumped: 35976.668 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.46 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 884189</b>
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## Test Notes:

Sample time =1320

## Weather Conditions:

Cold, cloudy,some rain

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/2/2023 10:16 AM	00:00	5.81 pH	15.17 °C	318.50 µS/cm	5.01 mg/L	527.00 NTU	60.6 mV	29.26 ft	200.00 ml/min
2/2/2023 10:21 AM	05:00	5.80 pH	14.41 °C	315.60 µS/cm	1.99 mg/L	342.00 NTU	52.4 mV	29.58 ft	200.00 ml/min
2/2/2023 10:26 AM	10:00	5.78 pH	14.45 °C	311.27 µS/cm	1.69 mg/L	256.00 NTU	50.0 mV	29.72 ft	200.00 ml/min
2/2/2023 10:31 AM	15:00	5.72 pH	14.29 °C	311.75 µS/cm	0.74 mg/L	279.00 NTU	45.6 mV	29.72 ft	200.00 ml/min
2/2/2023 10:36 AM	20:00	5.75 pH	14.29 °C	309.02 µS/cm	0.87 mg/L	268.00 NTU	42.2 mV	29.72 ft	200.00 ml/min
2/2/2023 10:41 AM	25:00	5.77 pH	14.08 °C	310.61 µS/cm	0.46 mg/L	254.00 NTU	37.8 mV	29.72 ft	200.00 ml/min
2/2/2023 10:46 AM	30:00	5.77 pH	14.53 °C	308.40 µS/cm	0.37 mg/L	312.00 NTU	32.6 mV	29.72 ft	200.00 ml/min
2/2/2023 10:51 AM	35:00	5.79 pH	14.45 °C	312.68 µS/cm	0.47 mg/L	252.00 NTU	28.0 mV	29.72 ft	200.00 ml/min
2/2/2023 10:56 AM	40:00	5.92 pH	13.36 °C	313.77 µS/cm	0.91 mg/L	159.00 NTU	22.1 mV	29.72 ft	200.00 ml/min
2/2/2023 11:01 AM	45:00	5.88 pH	12.54 °C	312.75 µS/cm	0.51 mg/L	95.40 NTU	20.5 mV	29.72 ft	200.00 ml/min
2/2/2023 11:06 AM	50:00	5.89 pH	12.18 °C	315.53 µS/cm	0.24 mg/L	79.30 NTU	16.1 mV	29.72 ft	200.00 ml/min
2/2/2023 11:11 AM	55:00	5.89 pH	12.44 °C	314.85 µS/cm	0.46 mg/L	73.20 NTU	11.9 mV	29.72 ft	200.00 ml/min

2/2/2023 11:16 AM	01:00:00	5.88 pH	12.31 °C	312.53 µS/cm	0.45 mg/L	67.20 NTU	9.9 mV	29.72 ft	200.00 ml/min
2/2/2023 11:21 AM	01:05:00	5.89 pH	12.33 °C	312.89 µS/cm	0.44 mg/L	61.50 NTU	8.1 mV	29.72 ft	200.00 ml/min
2/2/2023 11:26 AM	01:10:00	5.90 pH	12.03 °C	313.53 µS/cm	1.10 mg/L	60.90 NTU	8.3 mV	29.72 ft	200.00 ml/min
2/2/2023 11:31 AM	01:15:00	5.88 pH	12.17 °C	315.57 µS/cm	0.51 mg/L	56.70 NTU	5.4 mV	29.72 ft	200.00 ml/min
2/2/2023 11:36 AM	01:20:00	5.89 pH	12.54 °C	313.41 µS/cm	0.75 mg/L	50.60 NTU	4.1 mV	29.72 ft	200.00 ml/min
2/2/2023 11:41 AM	01:25:00	5.89 pH	12.84 °C	313.27 µS/cm	0.52 mg/L	45.90 NTU	2.5 mV	29.72 ft	200.00 ml/min
2/2/2023 11:46 AM	01:30:00	6.05 pH	14.27 °C	347.72 µS/cm	0.36 mg/L	52.60 NTU	-9.7 mV	29.72 ft	200.00 ml/min
2/2/2023 11:50 AM	01:34:53	6.17 pH	14.90 °C	337.03 µS/cm	0.39 mg/L	48.10 NTU	-17.4 mV	29.72 ft	200.00 ml/min
2/2/2023 11:55 AM	01:39:53	6.21 pH	14.30 °C	336.17 µS/cm	0.44 mg/L	46.70 NTU	-24.2 mV	29.72 ft	200.00 ml/min
2/2/2023 12:00 PM	01:44:53	6.06 pH	15.60 °C	331.86 µS/cm	0.31 mg/L	38.60 NTU	-25.2 mV	29.72 ft	200.00 ml/min
2/2/2023 12:05 PM	01:49:53	6.01 pH	15.66 °C	326.31 µS/cm	0.14 mg/L	28.50 NTU	-26.7 mV	29.72 ft	200.00 ml/min
2/2/2023 12:10 PM	01:54:53	6.01 pH	15.47 °C	323.40 µS/cm	0.39 mg/L	26.10 NTU	-25.6 mV	29.72 ft	200.00 ml/min
2/2/2023 12:15 PM	01:59:53	5.96 pH	15.60 °C	321.32 µS/cm	0.31 mg/L	20.90 NTU	-25.9 mV	29.72 ft	200.00 ml/min
2/2/2023 12:20 PM	02:04:53	5.96 pH	15.10 °C	318.65 µS/cm	0.51 mg/L	18.20 NTU	-25.2 mV	29.72 ft	200.00 ml/min
2/2/2023 12:25 PM	02:09:53	5.94 pH	15.26 °C	318.76 µS/cm	0.32 mg/L	16.80 NTU	-23.8 mV	29.72 ft	200.00 ml/min
2/2/2023 12:30 PM	02:14:53	5.94 pH	15.20 °C	313.75 µS/cm	0.24 mg/L	15.30 NTU	-26.1 mV	29.72 ft	200.00 ml/min
2/2/2023 12:35 PM	02:19:53	5.91 pH	15.40 °C	315.66 µS/cm	0.17 mg/L	14.80 NTU	-28.1 mV	29.72 ft	200.00 ml/min
2/2/2023 12:40 PM	02:24:53	5.90 pH	15.45 °C	315.22 µS/cm	0.26 mg/L	11.90 NTU	-29.8 mV	29.72 ft	200.00 ml/min
2/2/2023 12:45 PM	02:29:53	5.91 pH	15.34 °C	314.02 µS/cm	0.22 mg/L	11.90 NTU	-31.0 mV	29.72 ft	200.00 ml/min
2/2/2023 12:50 PM	02:34:53	5.89 pH	15.43 °C	313.05 µS/cm	0.30 mg/L	10.40 NTU	-32.3 mV	29.72 ft	200.00 ml/min
2/2/2023 12:55 PM	02:39:53	5.90 pH	15.47 °C	313.32 µS/cm	0.62 mg/L	9.52 NTU	-32.8 mV	29.72 ft	200.00 ml/min
2/2/2023 1:00 PM	02:44:53	5.87 pH	15.44 °C	308.66 µS/cm	0.19 mg/L	8.37 NTU	-22.8 mV	29.72 ft	200.00 ml/min
2/2/2023 1:05 PM	02:49:53	5.88 pH	15.40 °C	310.67 µS/cm	0.65 mg/L	6.53 NTU	-21.4 mV	29.72 ft	200.00 ml/min
2/2/2023 1:10 PM	02:54:53	5.87 pH	15.33 °C	309.14 µS/cm	0.70 mg/L	5.36 NTU	-32.1 mV	29.72 ft	200.00 ml/min
2/2/2023 1:15 PM	02:59:53	5.85 pH	15.44 °C	308.11 µS/cm	0.22 mg/L	4.97 NTU	-33.8 mV	29.72 ft	200.00 ml/min

## Samples

<b>Sample ID:</b>	MCD-B-63	<b>Description:</b>	TDS, Radium, Metals, Inorganics, Alkalinity
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# Low-Flow Test Report:

**Test Date / Time:** 2/7/2023 1:03:15 PM  
**Project:** Plant McDonough Jan 23 SAE (13)  
**Operator Name:** Daniel Howard

<b>Location Name: MCD-B-66</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 47.99 ft</b> <b>Total Depth: 57.99 ft</b> <b>Initial Depth to Water: 16.82 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: LDPE</b> <b>Pump Intake From TOC: 53 ft</b> <b>Estimated Total Volume Pumped: 9000 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 100 ml/min</b> <b>Final Draw Down: 3.6 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 883536</b>
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**Test Notes:**  
Low flow. Sample time 1425.

**Weather Conditions:**  
Partly sunny, temp 64F

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/7/2023 1:03 PM	00:00	6.12 pH	20.77 °C	707.63 µS/cm	0.72 mg/L	7.50 NTU	86.8 mV	18.67 ft	150.00 ml/min
2/7/2023 1:08 PM	05:00	6.16 pH	19.96 °C	721.25 µS/cm	0.56 mg/L	8.04 NTU	92.0 mV	19.22 ft	150.00 ml/min
2/7/2023 1:13 PM	10:00	6.18 pH	19.58 °C	725.28 µS/cm	0.59 mg/L	10.60 NTU	100.1 mV	19.22 ft	150.00 ml/min
2/7/2023 1:18 PM	15:00	6.20 pH	19.32 °C	733.18 µS/cm	0.71 mg/L	12.40 NTU	97.2 mV	19.87 ft	150.00 ml/min
2/7/2023 1:23 PM	20:00	6.21 pH	18.78 °C	736.35 µS/cm	0.72 mg/L	11.60 NTU	82.1 mV	19.90 ft	100.00 ml/min
2/7/2023 1:28 PM	25:00	6.20 pH	19.32 °C	740.90 µS/cm	0.67 mg/L	8.82 NTU	74.9 mV	19.99 ft	100.00 ml/min
2/7/2023 1:33 PM	30:00	6.20 pH	19.96 °C	739.42 µS/cm	0.48 mg/L	6.08 NTU	70.9 mV	20.05 ft	100.00 ml/min
2/7/2023 1:38 PM	35:00	6.19 pH	20.17 °C	738.99 µS/cm	0.39 mg/L	5.96 NTU	64.5 mV	20.13 ft	100.00 ml/min
2/7/2023 1:43 PM	40:00	6.21 pH	19.41 °C	742.58 µS/cm	0.35 mg/L	4.86 NTU	56.7 mV	20.17 ft	100.00 ml/min
2/7/2023 1:48 PM	45:00	6.21 pH	19.30 °C	746.55 µS/cm	0.32 mg/L	4.67 NTU	50.3 mV	20.21 ft	100.00 ml/min
2/7/2023 1:53 PM	50:00	6.21 pH	19.37 °C	747.10 µS/cm	0.28 mg/L	4.15 NTU	44.4 mV	20.24 ft	100.00 ml/min
2/7/2023 1:58 PM	55:00	6.21 pH	19.05 °C	750.22 µS/cm	0.26 mg/L	3.69 NTU	40.3 mV	20.27 ft	100.00 ml/min
2/7/2023 2:03 PM	01:00:00	6.21 pH	18.86 °C	753.98 µS/cm	0.27 mg/L	2.85 NTU	38.2 mV	20.30 ft	100.00 ml/min

2/7/2023 2:08 PM	01:05:00	6.22 pH	19.43 °C	749.49 µS/cm	0.26 mg/L	2.27 NTU	33.8 mV	20.36 ft	100.00 ml/min
2/7/2023 2:13 PM	01:10:00	6.22 pH	19.54 °C	750.82 µS/cm	0.26 mg/L	1.87 NTU	33.2 mV	20.38 ft	100.00 ml/min
2/7/2023 2:18 PM	01:15:00	6.22 pH	19.87 °C	748.73 µS/cm	0.25 mg/L	1.31 NTU	33.6 mV	20.40 ft	100.00 ml/min
2/7/2023 2:23 PM	01:20:00	6.22 pH	19.90 °C	749.00 µS/cm	0.24 mg/L	1.14 NTU	32.0 mV	20.42 ft	100.00 ml/min

## Samples

<b>Sample ID:</b> MCD-B-66	<b>Description:</b> TDS, Radium, Metals, Inorganics, Alkalinity
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# Low-Flow Test Report:

Test Date / Time: 2/6/2023 1:09:45 PM

Project: Plant McDonough January 2023 SAE (10)

Operator Name: Ever Guillen

<b>Location Name: MCD-B-77</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 33.46 ft</b> <b>Total Depth: 43.46 ft</b> <b>Initial Depth to Water: 27.45 ft</b>	<b>Pump Type: Bladder pump</b> <b>Tubing Type: PE</b> <b>Pump Intake From TOC: 38 ft</b> <b>Estimated Total Volume Pumped: 8000 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 1.47 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 884189</b>
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## Test Notes:

Sample time = 1355

## Weather Conditions:

Cold,clear, dry

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/6/2023 1:09 PM	00:00	6.29 pH	21.07 °C	318.45 µS/cm	5.22 mg/L	24.30 NTU	-50.0 mV	27.45 ft	200.00 ml/min
2/6/2023 1:14 PM	05:00	6.42 pH	20.01 °C	348.92 µS/cm	0.47 mg/L	21.70 NTU	-79.2 mV	28.66 ft	200.00 ml/min
2/6/2023 1:19 PM	10:00	6.46 pH	20.01 °C	351.10 µS/cm	0.21 mg/L	15.20 NTU	-91.2 mV	28.92 ft	200.00 ml/min
2/6/2023 1:24 PM	15:00	6.49 pH	19.95 °C	350.36 µS/cm	0.16 mg/L	10.10 NTU	-85.3 mV	28.92 ft	200.00 ml/min
2/6/2023 1:29 PM	20:00	6.50 pH	20.40 °C	350.28 µS/cm	0.14 mg/L	8.79 NTU	-86.7 mV	28.92 ft	200.00 ml/min
2/6/2023 1:34 PM	25:00	6.51 pH	20.44 °C	347.20 µS/cm	0.19 mg/L	7.02 NTU	-92.9 mV	28.92 ft	200.00 ml/min
2/6/2023 1:39 PM	30:00	6.53 pH	19.61 °C	344.77 µS/cm	0.17 mg/L	6.08 NTU	-83.0 mV	28.92 ft	200.00 ml/min
2/6/2023 1:44 PM	35:00	6.52 pH	20.14 °C	346.38 µS/cm	0.17 mg/L	4.06 NTU	-84.1 mV	28.92 ft	200.00 ml/min
2/6/2023 1:49 PM	40:00	6.53 pH	20.95 °C	345.59 µS/cm	0.17 mg/L	3.81 NTU	-84.1 mV	28.92 ft	200.00 ml/min

## Samples

<b>Sample ID:</b> MCD-B-77	<b>Description:</b> TDS, Radium, Metals, Inorganics, Alkalinity
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# Low-Flow Test Report:

**Test Date / Time:** 2/7/2023 11:03:16 AM  
**Project:** Plant McDonough Jan 23 SAE (12)  
**Operator Name:** Daniel Howard

<b>Location Name:</b> MCD-B-82 <b>Well Diameter:</b> 2 in <b>Casing Type:</b> PVC <b>Screen Length:</b> 10 ft <b>Top of Screen:</b> 37.65 ft <b>Total Depth:</b> 47.65 ft <b>Initial Depth to Water:</b> 11.86 ft	<b>Pump Type:</b> Peristaltic <b>Tubing Type:</b> LDPE <b>Pump Intake From TOC:</b> 42 ft <b>Estimated Total Volume Pumped:</b> 5250 ml <b>Flow Cell Volume:</b> 90 ml <b>Final Flow Rate:</b> 150 ml/min <b>Final Draw Down:</b> 1.41 ft	<b>Instrument Used:</b> Aqua TROLL 400 <b>Serial Number:</b> 883536
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**Test Notes:**  
Low flow. Sample time 1138.

**Weather Conditions:**  
Clear, Temp 48F

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/7/2023 11:03 AM	00:00	5.35 pH	19.44 °C	733.52 µS/cm	2.83 mg/L	4.78 NTU	236.3 mV	11.86 ft	150.00 ml/min
2/7/2023 11:08 AM	05:00	5.26 pH	18.16 °C	867.03 µS/cm	2.16 mg/L	4.51 NTU	238.1 mV	12.95 ft	150.00 ml/min
2/7/2023 11:13 AM	10:00	5.30 pH	17.98 °C	865.09 µS/cm	2.08 mg/L	4.66 NTU	230.9 mV	13.10 ft	150.00 ml/min
2/7/2023 11:18 AM	15:00	5.34 pH	18.18 °C	864.78 µS/cm	2.07 mg/L	3.00 NTU	226.9 mV	13.17 ft	150.00 ml/min
2/7/2023 11:23 AM	20:00	5.33 pH	18.18 °C	876.58 µS/cm	2.18 mg/L	1.26 NTU	272.9 mV	13.23 ft	150.00 ml/min
2/7/2023 11:28 AM	25:00	5.30 pH	18.07 °C	882.49 µS/cm	2.00 mg/L	1.01 NTU	271.8 mV	13.26 ft	150.00 ml/min
2/7/2023 11:33 AM	30:00	5.28 pH	18.35 °C	876.43 µS/cm	1.95 mg/L	0.95 NTU	223.9 mV	13.27 ft	150.00 ml/min
2/7/2023 11:38 AM	35:00	5.28 pH	18.16 °C	857.69 µS/cm	1.91 mg/L	0.83 NTU	220.1 mV	13.27 ft	150.00 ml/min

## Samples

<b>Sample ID:</b>	MCD-B-82	<b>Description:</b> TDS, Radium, Metals, Inorganics, Alkalinity
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# Low-Flow Test Report:

Test Date / Time: 2/3/2023 11:36:35 AM

Project: Plant McDonough January 2023 SAE (8)

Operator Name: Ever Guillen

<b>Location Name: MCD-B-83</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 38.9 ft</b> <b>Total Depth: 48.9 ft</b> <b>Initial Depth to Water: 29.57 ft</b>	<b>Pump Type: Bladder pump</b> <b>Tubing Type: PE</b> <b>Pump Intake From TOC: 43 ft</b> <b>Estimated Total Volume Pumped: 7000 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.26 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 884189</b>
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## Test Notes:

Sample time = 1215

## Weather Conditions:

Cold,clear,dry

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/3/2023 11:36 AM	00:00	7.47 pH	13.45 °C	354.70 µS/cm	6.52 mg/L	29.60 NTU	194.1 mV	29.57 ft	200.00 ml/min
2/3/2023 11:41 AM	05:00	5.69 pH	14.44 °C	302.20 µS/cm	0.74 mg/L	4.34 NTU	151.9 mV	28.83 ft	200.00 ml/min
2/3/2023 11:46 AM	10:00	5.62 pH	14.72 °C	308.74 µS/cm	0.51 mg/L	1.20 NTU	144.3 mV	29.83 ft	200.00 ml/min
2/3/2023 11:51 AM	15:00	5.60 pH	15.13 °C	312.87 µS/cm	0.52 mg/L	1.12 NTU	143.8 mV	29.83 ft	200.00 ml/min
2/3/2023 11:56 AM	20:00	5.60 pH	15.22 °C	314.72 µS/cm	0.51 mg/L	1.05 NTU	146.0 mV	29.83 ft	200.00 ml/min
2/3/2023 12:01 PM	25:00	5.60 pH	15.08 °C	315.97 µS/cm	0.40 mg/L	0.81 NTU	148.2 mV	29.83 ft	200.00 ml/min
2/3/2023 12:06 PM	30:00	5.60 pH	15.31 °C	315.51 µS/cm	0.38 mg/L	0.58 NTU	191.0 mV	29.83 ft	200.00 ml/min
2/3/2023 12:11 PM	35:00	5.59 pH	15.50 °C	317.48 µS/cm	0.34 mg/L	0.65 NTU	202.1 mV	29.83 ft	200.00 ml/min

## Samples

<b>Sample ID:</b>	MCD-B-83	<b>Description:</b> TDS, Radium, Metals, Inorganics, Alkalinity
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# Low-Flow Test Report:

Test Date / Time: 2/7/2023 1:30:13 PM

Project: Jan. SAE 2023 McDonough (8)

Operator Name: Mark Mann

<b>Location Name: MCD-B-88</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 65.06 ft</b> <b>Total Depth: 75.06 ft</b> <b>Initial Depth to Water: 37.48 ft</b>	<b>Pump Type: Bladder</b> <b>Tubing Type: Tru-Poly</b> <b>Pump Intake From TOC: 70 ft</b> <b>Estimated Total Volume Pumped: 13000 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.15 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 851413</b>
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## Test Notes:

## Weather Conditions:

Sunny

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/7/2023 1:30 PM	00:00	6.60 pH	25.32 °C	805.55 µS/cm	2.75 mg/L	198.00 NTU	3.2 mV	37.48 ft	200.00 ml/min
2/7/2023 1:35 PM	05:00	5.73 pH	19.28 °C	938.49 µS/cm	0.40 mg/L	281.00 NTU	58.0 mV	37.61 ft	200.00 ml/min
2/7/2023 1:40 PM	10:00	5.68 pH	18.74 °C	938.91 µS/cm	0.33 mg/L	181.00 NTU	67.1 mV	37.58 ft	200.00 ml/min
2/7/2023 1:45 PM	15:00	5.65 pH	18.61 °C	940.83 µS/cm	0.23 mg/L	148.00 NTU	108.1 mV	37.62 ft	200.00 ml/min
2/7/2023 1:50 PM	20:00	5.63 pH	18.71 °C	932.51 µS/cm	0.19 mg/L	74.10 NTU	87.0 mV	37.66 ft	200.00 ml/min
2/7/2023 1:55 PM	25:00	5.63 pH	18.45 °C	933.67 µS/cm	0.17 mg/L	39.50 NTU	91.3 mV	37.66 ft	200.00 ml/min
2/7/2023 2:00 PM	30:00	5.62 pH	18.34 °C	930.59 µS/cm	0.16 mg/L	31.20 NTU	94.7 mV	37.62 ft	200.00 ml/min
2/7/2023 2:05 PM	35:00	5.62 pH	18.74 °C	934.39 µS/cm	0.15 mg/L	22.80 NTU	98.1 mV	37.63 ft	200.00 ml/min
2/7/2023 2:10 PM	40:00	5.61 pH	18.86 °C	919.92 µS/cm	0.14 mg/L	16.20 NTU	102.9 mV	37.63 ft	200.00 ml/min
2/7/2023 2:15 PM	45:00	5.61 pH	19.05 °C	922.18 µS/cm	0.13 mg/L	11.10 NTU	103.3 mV	37.64 ft	200.00 ml/min
2/7/2023 2:20 PM	50:00	5.61 pH	18.95 °C	922.88 µS/cm	0.12 mg/L	8.91 NTU	102.6 mV	37.62 ft	200.00 ml/min
2/7/2023 2:25 PM	55:00	5.60 pH	18.84 °C	918.67 µS/cm	0.12 mg/L	6.45 NTU	101.8 mV	37.60 ft	200.00 ml/min
2/7/2023 2:30 PM	01:00:00	5.60 pH	18.53 °C	920.44 µS/cm	0.10 mg/L	4.44 NTU	101.1 mV	37.62 ft	200.00 ml/min

2/7/2023 2:35 PM	01:05:00	5.59 pH	18.47 °C	919.57 µS/cm	0.10 mg/L	3.37 NTU	100.8 mV	37.63 ft	200.00 ml/min
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## Samples

Sample ID:	Description:
MCD-B-88	TDS, Radium, Metals, Inorganics, Alkalinity

# Low-Flow Test Report:

Test Date / Time: 1/31/2023 12:10:57 PM

Project: Plant McDonough Jan 23 SAE

Operator Name: Daniel Howard

<b>Location Name: MCD-B-90</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 23.4 ft</b> <b>Total Depth: 33.4 ft</b> <b>Initial Depth to Water: 1.7 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: LDPE</b> <b>Pump Intake From TOC: 28 ft</b> <b>Estimated Total Volume Pumped: 5920 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.73 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 883536</b>
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## Test Notes:

Low flow. Sample time 12:43

## Weather Conditions:

Overcast, 60F

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
1/31/2023 12:10 PM	00:00	5.34 pH	18.38 °C	696.25 µS/cm	0.16 mg/L	2.65 NTU	97.8 mV	1.70 ft	200.00 ml/min
1/31/2023 12:15 PM	05:00	5.34 pH	18.14 °C	792.94 µS/cm	0.11 mg/L	3.53 NTU	127.5 mV	2.43 ft	200.00 ml/min
1/31/2023 12:20 PM	10:00	5.34 pH	18.08 °C	806.55 µS/cm	0.11 mg/L	2.33 NTU	129.0 mV	2.46 ft	200.00 ml/min
1/31/2023 12:25 PM	14:36	5.34 pH	18.12 °C	747.81 µS/cm	0.10 mg/L	1.37 NTU	130.3 mV	2.49 ft	200.00 ml/min
1/31/2023 12:30 PM	19:36	5.35 pH	18.03 °C	803.15 µS/cm	0.10 mg/L	1.74 NTU	153.6 mV	2.49 ft	200.00 ml/min
1/31/2023 12:35 PM	24:36	5.36 pH	17.93 °C	790.97 µS/cm	0.11 mg/L	1.27 NTU	128.8 mV	2.50 ft	200.00 ml/min
1/31/2023 12:40 PM	29:36	5.36 pH	17.85 °C	795.50 µS/cm	0.15 mg/L	0.58 NTU	151.5 mV	2.52 ft	200.00 ml/min

## Samples

<b>Sample ID:</b> MCD-B-90	<b>Description:</b> Boron
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# Low-Flow Test Report:

**Test Date / Time:** 1/31/2023 2:02:50 PM  
**Project:** Plant McDonough Jan 23 SAE (2)  
**Operator Name:** Daniel Howard

<b>Location Name:</b> MCD-B-91 <b>Well Diameter:</b> 2 in <b>Casing Type:</b> PVC <b>Screen Length:</b> 10 ft <b>Top of Screen:</b> 24.6 ft <b>Total Depth:</b> 34.6 ft <b>Initial Depth to Water:</b> 3.58 ft	<b>Pump Type:</b> Peristaltic <b>Tubing Type:</b> LDPE <b>Pump Intake From TOC:</b> 29 ft <b>Estimated Total Volume Pumped:</b> 6000 ml <b>Flow Cell Volume:</b> 90 ml <b>Final Flow Rate:</b> 200 ml/min <b>Final Draw Down:</b> 0.34 ft	<b>Instrument Used:</b> Aqua TROLL 400 <b>Serial Number:</b> 883536
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**Test Notes:**  
Low flow. Sample time 1433.

**Weather Conditions:**  
Overcast, temp 64F

## 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	
1/31/2023 2:02 PM	00:00	5.32 pH	17.94 °C	743.89 µS/cm	0.35 mg/L	1.41 NTU	105.4 mV	3.58 ft	200.00 ml/min
1/31/2023 2:07 PM	05:00	5.31 pH	17.90 °C	874.10 µS/cm	0.21 mg/L	2.97 NTU	136.7 mV	3.88 ft	200.00 ml/min
1/31/2023 2:12 PM	10:00	5.30 pH	17.80 °C	872.94 µS/cm	0.29 mg/L	2.73 NTU	137.4 mV	3.90 ft	200.00 ml/min
1/31/2023 2:17 PM	15:00	5.29 pH	17.80 °C	860.21 µS/cm	0.27 mg/L	1.34 NTU	114.5 mV	3.91 ft	200.00 ml/min
1/31/2023 2:22 PM	20:00	5.29 pH	17.74 °C	869.76 µS/cm	0.26 mg/L	0.54 NTU	128.7 mV	3.91 ft	200.00 ml/min
1/31/2023 2:27 PM	25:00	5.29 pH	17.77 °C	865.67 µS/cm	0.24 mg/L	0.38 NTU	108.8 mV	3.92 ft	200.00 ml/min
1/31/2023 2:32 PM	30:00	5.28 pH	17.73 °C	865.84 µS/cm	0.22 mg/L	0.26 NTU	123.1 mV	3.92 ft	200.00 ml/min

## Samples

<b>Sample ID:</b> MCD-B-90	<b>Description:</b> Boron
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# Low-Flow Test Report:

**Test Date / Time:** 1/31/2023 11:50:15 AM

**Project:** Plant McDonough January 2023 SAE (2)

**Operator Name:** Ever Guillen

<b>Location Name: MCD-B-92</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 14.6 ft</b> <b>Total Depth: 24.6 ft</b> <b>Initial Depth to Water: 4.97 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: PE</b> <b>Pump Intake From TOC: 20 ft</b> <b>Estimated Total Volume Pumped: 5000 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.14 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 884189</b>
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## Test Notes:

Sample time =1220

## Weather Conditions:

Cold,cloudy, humid

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
1/31/2023 11:50 AM	00:00	4.50 pH	19.86 °C	82.67 µS/cm	2.23 mg/L	2.62 NTU	226.9 mV	4.97 ft	200.00 ml/min
1/31/2023 11:55 AM	05:00	4.45 pH	18.39 °C	84.63 µS/cm	0.28 mg/L	2.31 NTU	390.7 mV	5.11 ft	200.00 ml/min
1/31/2023 12:00 PM	10:00	4.47 pH	18.55 °C	84.69 µS/cm	0.19 mg/L	1.29 NTU	419.5 mV	5.11 ft	200.00 ml/min
1/31/2023 12:05 PM	15:00	4.47 pH	18.72 °C	84.64 µS/cm	0.17 mg/L	1.17 NTU	438.5 mV	5.11 ft	200.00 ml/min
1/31/2023 12:10 PM	20:00	4.48 pH	18.84 °C	83.85 µS/cm	0.14 mg/L	1.15 NTU	445.1 mV	5.11 ft	200.00 ml/min
1/31/2023 12:15 PM	25:00	4.48 pH	18.99 °C	83.64 µS/cm	0.13 mg/L	1.04 NTU	446.5 mV	5.11 ft	200.00 ml/min

## Samples

<b>Sample ID:</b> MCD-B-92	<b>Description:</b> TDS, Radium, Metals, Inorganics, Alkalinity
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# Low-Flow Test Report:

**Test Date / Time:** 1/31/2023 1:19:59 PM

**Project:** Plant McDonough January 2023 SAE (3)

**Operator Name:** Ever Guillen

<b>Location Name: MCD-B-93</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 19.3 ft</b> <b>Total Depth: 29.3 ft</b> <b>Initial Depth to Water: 6.88 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: PE</b> <b>Pump Intake From TOC: 24 ft</b> <b>Estimated Total Volume Pumped: 12000 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.33 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 884189</b>
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## Test Notes:

Sample time =1425

## Weather Conditions:

Cold,cloudy, humid

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
1/31/2023 1:19 PM	00:00	4.83 pH	20.64 °C	103.21 µS/cm	5.65 mg/L	4.31 NTU	372.2 mV	6.88 ft	200.00 ml/min
1/31/2023 1:24 PM	05:00	4.83 pH	20.75 °C	101.79 µS/cm	5.51 mg/L	1.41 NTU	556.9 mV	7.21 ft	200.00 ml/min
1/31/2023 1:29 PM	10:00	4.84 pH	20.42 °C	102.16 µS/cm	5.45 mg/L	1.19 NTU	471.3 mV	7.21 ft	200.00 ml/min
1/31/2023 1:34 PM	15:00	4.84 pH	20.39 °C	102.32 µS/cm	5.45 mg/L	0.98 NTU	472.1 mV	7.21 ft	200.00 ml/min
1/31/2023 1:39 PM	20:00	4.71 pH	19.70 °C	105.68 µS/cm	3.05 mg/L	0.99 NTU	565.7 mV	7.21 ft	200.00 ml/min
1/31/2023 1:44 PM	25:00	4.69 pH	19.81 °C	105.99 µS/cm	2.47 mg/L	0.82 NTU	567.2 mV	7.21 ft	200.00 ml/min
1/31/2023 1:49 PM	30:00	4.69 pH	19.92 °C	106.14 µS/cm	2.23 mg/L	0.60 NTU	567.0 mV	7.21 ft	200.00 ml/min
1/31/2023 1:54 PM	35:00	4.69 pH	20.26 °C	105.70 µS/cm	2.19 mg/L	0.58 NTU	567.6 mV	7.21 ft	200.00 ml/min
1/31/2023 1:59 PM	40:00	4.68 pH	20.48 °C	105.57 µS/cm	2.08 mg/L	0.61 NTU	568.5 mV	7.21 ft	200.00 ml/min
1/31/2023 2:04 PM	45:00	4.66 pH	20.00 °C	108.25 µS/cm	2.58 mg/L	0.62 NTU	570.0 mV	7.21 ft	200.00 ml/min
1/31/2023 2:09 PM	50:00	4.68 pH	20.87 °C	107.28 µS/cm	2.57 mg/L	0.76 NTU	501.3 mV	7.21 ft	200.00 ml/min
1/31/2023 2:14 PM	55:00	4.68 pH	20.67 °C	107.19 µS/cm	2.42 mg/L	0.65 NTU	501.5 mV	7.21 ft	200.00 ml/min
1/31/2023 2:19 PM	01:00:00	4.68 pH	19.80 °C	107.71 µS/cm	2.43 mg/L	0.52 NTU	499.0 mV	7.21 ft	200.00 ml/min

**Samples**

<b>Sample ID:</b> MCD-B-93	<b>Description:</b> TDS, Metals, Radium, Inorganics, Alkalinity
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# Low-Flow Test Report:

Test Date / Time: 2/1/2023 10:53:41 AM

Project: Plant McDonough Jan 23 SAE

Operator Name: Daniel Howard

<b>Location Name: MCD-B-95</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 25.16 ft</b> <b>Total Depth: 35.16 ft</b> <b>Initial Depth to Water: 2.01 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: LDPE</b> <b>Pump Intake From TOC: 30 ft</b> <b>Estimated Total Volume Pumped: 6000 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.9 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 883536</b>
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## Test Notes:

Low flow. Sample time 1125.

## Weather Conditions:

Overcast, 49F

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/1/2023 10:53 AM	00:00	5.28 pH	16.71 °C	548.39 µS/cm	0.25 mg/L	3.92 NTU	225.2 mV	2.01 ft	200.00 ml/min
2/1/2023 10:58 AM	05:00	5.27 pH	16.91 °C	545.76 µS/cm	0.15 mg/L	3.43 NTU	220.4 mV	2.83 ft	200.00 ml/min
2/1/2023 11:03 AM	10:00	5.26 pH	16.96 °C	542.45 µS/cm	0.15 mg/L	7.61 NTU	207.1 mV	2.85 ft	200.00 ml/min
2/1/2023 11:08 AM	15:00	5.27 pH	17.14 °C	526.21 µS/cm	0.11 mg/L	3.14 NTU	197.0 mV	2.87 ft	200.00 ml/min
2/1/2023 11:13 AM	20:00	5.26 pH	16.87 °C	536.20 µS/cm	0.07 mg/L	1.95 NTU	181.7 mV	2.89 ft	200.00 ml/min
2/1/2023 11:18 AM	25:00	5.26 pH	16.90 °C	539.21 µS/cm	0.07 mg/L	1.48 NTU	172.0 mV	2.90 ft	200.00 ml/min
2/1/2023 11:23 AM	30:00	5.26 pH	17.01 °C	537.59 µS/cm	0.07 mg/L	0.58 NTU	135.9 mV	2.91 ft	200.00 ml/min

## Samples

<b>Sample ID: MCD-B-95</b>	<b>Description: Boron</b>
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# Low-Flow Test Report:

**Test Date / Time:** 1/31/2023 3:35:03 PM  
**Project:** Plant McDonough Jan 23 SAE (3)  
**Operator Name:** Daniel Howard

<b>Location Name:</b> MCD-B-96 <b>Well Diameter:</b> 2 in <b>Casing Type:</b> PVC <b>Screen Length:</b> 10 ft <b>Top of Screen:</b> 22.33 ft <b>Total Depth:</b> 32.33 ft <b>Initial Depth to Water:</b> 5.31 ft	<b>Pump Type:</b> Peristaltic <b>Tubing Type:</b> LDPE <b>Pump Intake From TOC:</b> 27 ft <b>Estimated Total Volume Pumped:</b> 6000 ml <b>Flow Cell Volume:</b> 90 ml <b>Final Flow Rate:</b> 200 ml/min <b>Final Draw Down:</b> 0.44 ft	<b>Instrument Used:</b> Aqua TROLL 400 <b>Serial Number:</b> 883536
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## Test Notes:

Low flow. Sample time 1605.

## Weather Conditions:

Overcast, temp 65F

## 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	
1/31/2023 3:35 PM	00:00	5.05 pH	19.14 °C	867.38 µS/cm	0.48 mg/L	0.15 NTU	441.6 mV	5.31 ft	200.00 ml/min
1/31/2023 3:40 PM	05:00	5.05 pH	18.90 °C	1,028.0 µS/cm	0.18 mg/L	0.58 NTU	571.9 mV	5.68 ft	200.00 ml/min
1/31/2023 3:45 PM	10:00	5.04 pH	18.96 °C	1,013.8 µS/cm	0.11 mg/L	0.53 NTU	485.1 mV	5.70 ft	200.00 ml/min
1/31/2023 3:50 PM	15:00	5.04 pH	19.04 °C	1,015.1 µS/cm	0.08 mg/L	0.70 NTU	485.9 mV	5.72 ft	200.00 ml/min
1/31/2023 3:55 PM	20:00	5.04 pH	18.97 °C	1,026.2 µS/cm	0.06 mg/L	0.71 NTU	573.3 mV	5.74 ft	200.00 ml/min
1/31/2023 4:00 PM	25:00	5.04 pH	18.88 °C	1,026.0 µS/cm	0.05 mg/L	0.65 NTU	574.1 mV	5.75 ft	200.00 ml/min
1/31/2023 4:05 PM	30:00	5.04 pH	18.79 °C	1,008.7 µS/cm	0.05 mg/L	0.32 NTU	480.9 mV	5.75 ft	200.00 ml/min

## Samples

<b>Sample ID:</b> MCD-B-96	<b>Description:</b> Boron
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# Low-Flow Test Report:

Test Date / Time: 2/1/2023 10:36:11 AM

Project: Plant McDonough January 2023 SAE (5)

Operator Name: Ever Guillen

<b>Location Name: MCD-B-97</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 20.71 ft</b> <b>Total Depth: 30.71 ft</b> <b>Initial Depth to Water: 4.81 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: PE</b> <b>Pump Intake From TOC: 25 ft</b> <b>Estimated Total Volume Pumped: 8000 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.22 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 884189</b>
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## Test Notes:

Sample time = 1120

## Weather Conditions:

Cold, cloudy, humid

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/1/2023 10:36 AM	00:00	5.92 pH	18.50 °C	179.29 µS/cm	6.04 mg/L	3.65 NTU	224.4 mV	4.81 ft	200.00 ml/min
2/1/2023 10:41 AM	05:00	5.46 pH	16.01 °C	137.49 µS/cm	0.35 mg/L	1.72 NTU	227.5 mV	5.03 ft	200.00 ml/min
2/1/2023 10:46 AM	10:00	5.46 pH	16.00 °C	136.08 µS/cm	0.24 mg/L	1.08 NTU	246.5 mV	5.03 ft	200.00 ml/min
2/1/2023 10:51 AM	15:00	5.46 pH	17.10 °C	137.18 µS/cm	0.17 mg/L	0.66 NTU	283.4 mV	5.03 ft	200.00 ml/min
2/1/2023 10:56 AM	20:00	5.47 pH	16.97 °C	136.77 µS/cm	0.15 mg/L	0.47 NTU	353.8 mV	5.03 ft	200.00 ml/min
2/1/2023 11:01 AM	25:00	5.47 pH	16.89 °C	137.28 µS/cm	0.14 mg/L	0.50 NTU	392.0 mV	5.03 ft	200.00 ml/min
2/1/2023 11:06 AM	30:00	5.47 pH	16.52 °C	137.88 µS/cm	0.12 mg/L	0.43 NTU	407.2 mV	5.03 ft	200.00 ml/min
2/1/2023 11:11 AM	35:00	5.47 pH	17.12 °C	136.91 µS/cm	0.12 mg/L	0.35 NTU	410.8 mV	5.03 ft	200.00 ml/min
2/1/2023 11:16 AM	40:00	5.47 pH	17.41 °C	137.80 µS/cm	0.11 mg/L	0.41 NTU	414.8 mV	5.03 ft	200.00 ml/min

## Samples

<b>Sample ID: MCD-B-97</b>	<b>Description: TDS, Radium, Metals, Inorganics, Alkalinity</b>
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# Low-Flow Test Report:

Test Date / Time: 1/31/2023 3:21:07 PM

Project: Plant McDonough January 2023 SAE (4)

Operator Name: Ever Guillen

<b>Location Name: MCD-B-98</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 9.01 ft</b> <b>Total Depth: 19.01 ft</b> <b>Initial Depth to Water: 6.51 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: PE</b> <b>Pump Intake From TOC: 14 ft</b> <b>Estimated Total Volume Pumped: 13000 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.75 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 884189</b>
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## Test Notes:

Sample time = 1630

## Weather Conditions:

Cold, cloudy, some rain

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
1/31/2023 3:21 PM	00:00	6.71 pH	23.75 °C	24.48 µS/cm	6.23 mg/L	112.00 NTU	129.2 mV	6.51 ft	200.00 ml/min
1/31/2023 3:26 PM	05:00	6.75 pH	22.20 °C	24.18 µS/cm	6.03 mg/L	79.80 NTU	134.6 mV	7.08 ft	200.00 ml/min
1/31/2023 3:31 PM	10:00	6.76 pH	21.56 °C	24.78 µS/cm	6.05 mg/L	60.30 NTU	154.2 mV	7.08 ft	200.00 ml/min
1/31/2023 3:36 PM	15:00	6.76 pH	21.54 °C	25.24 µS/cm	6.14 mg/L	35.70 NTU	131.8 mV	7.10 ft	200.00 ml/min
1/31/2023 3:41 PM	20:00	6.78 pH	21.64 °C	24.90 µS/cm	5.87 mg/L	22.60 NTU	128.4 mV	7.12 ft	200.00 ml/min
1/31/2023 3:46 PM	25:00	6.78 pH	21.33 °C	25.12 µS/cm	5.81 mg/L	17.50 NTU	125.5 mV	7.13 ft	200.00 ml/min
1/31/2023 3:51 PM	30:00	6.78 pH	20.89 °C	25.33 µS/cm	5.78 mg/L	13.30 NTU	123.4 mV	7.15 ft	200.00 ml/min
1/31/2023 3:56 PM	35:00	6.78 pH	20.44 °C	25.22 µS/cm	5.70 mg/L	11.60 NTU	121.7 mV	7.16 ft	200.00 ml/min
1/31/2023 4:01 PM	40:00	6.79 pH	20.16 °C	25.16 µS/cm	5.67 mg/L	8.70 NTU	120.0 mV	7.18 ft	200.00 ml/min
1/31/2023 4:06 PM	45:00	6.79 pH	20.12 °C	24.99 µS/cm	5.64 mg/L	7.56 NTU	118.6 mV	7.20 ft	200.00 ml/min
1/31/2023 4:11 PM	50:00	6.79 pH	19.83 °C	25.16 µS/cm	5.60 mg/L	7.29 NTU	132.5 mV	7.23 ft	200.00 ml/min
1/31/2023 4:16 PM	55:00	6.79 pH	19.67 °C	25.04 µS/cm	5.63 mg/L	6.23 NTU	117.5 mV	7.24 ft	200.00 ml/min
1/31/2023 4:21 PM	01:00:00	6.78 pH	19.70 °C	25.10 µS/cm	5.59 mg/L	5.29 NTU	115.4 mV	7.25 ft	200.00 ml/min



1/31/2023 4:26 PM	01:05:00	6.78 pH	19.68 °C	24.87 µS/cm	5.58 mg/L	4.40 NTU	114.3 mV	7.26 ft	200.00 ml/min
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**Samples**

<b>Sample ID:</b> MCD-B-98	<b>Description:</b> TDS, Radium, Metals, Inorganics, Alkalinity
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# Low-Flow Test Report:

**Test Date / Time:** 2/1/2023 12:44:21 PM  
**Project:** Plant McDonough Jan 23 SAE (4)  
**Operator Name:** Daniel Howard

<b>Location Name:</b> MCD-B-99 <b>Well Diameter:</b> 2 in <b>Casing Type:</b> PVC <b>Screen Length:</b> 5 ft <b>Top of Screen:</b> 6.93 ft <b>Total Depth:</b> 11.93 ft <b>Initial Depth to Water:</b> 3.02 ft	<b>Pump Type:</b> Peristaltic <b>Tubing Type:</b> LDPE <b>Pump Intake From TOC:</b> 9 ft <b>Estimated Total Volume Pumped:</b> 12000 ml <b>Flow Cell Volume:</b> 90 ml <b>Final Flow Rate:</b> 150 ml/min <b>Final Draw Down:</b> 0.51 ft	<b>Instrument Used:</b> Aqua TROLL 400 <b>Serial Number:</b> 883536
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## Test Notes:

Low flow. Sample time 1405.

## Weather Conditions:

Overcast, Temp 50F

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/1/2023 12:44 PM	00:00	5.58 pH	15.52 °C	707.15 µS/cm	0.23 mg/L	84.20 NTU	115.0 mV	3.02 ft	150.00 ml/min
2/1/2023 12:49 PM	05:00	5.59 pH	15.44 °C	713.91 µS/cm	0.14 mg/L	59.30 NTU	141.1 mV	3.47 ft	150.00 ml/min
2/1/2023 12:54 PM	10:00	5.60 pH	15.53 °C	715.56 µS/cm	0.25 mg/L	44.10 NTU	127.4 mV	3.49 ft	150.00 ml/min
2/1/2023 12:59 PM	15:00	5.60 pH	15.42 °C	712.50 µS/cm	0.12 mg/L	36.90 NTU	122.5 mV	3.49 ft	150.00 ml/min
2/1/2023 1:04 PM	20:00	5.60 pH	15.57 °C	703.35 µS/cm	0.21 mg/L	28.20 NTU	115.0 mV	3.49 ft	150.00 ml/min
2/1/2023 1:09 PM	25:00	5.60 pH	15.57 °C	699.20 µS/cm	0.10 mg/L	23.80 NTU	126.2 mV	3.50 ft	150.00 ml/min
2/1/2023 1:14 PM	30:00	5.61 pH	15.75 °C	707.34 µS/cm	0.12 mg/L	19.60 NTU	97.8 mV	3.51 ft	150.00 ml/min
2/1/2023 1:19 PM	35:00	5.61 pH	15.75 °C	704.48 µS/cm	0.05 mg/L	16.80 NTU	89.7 mV	3.51 ft	150.00 ml/min
2/1/2023 1:24 PM	40:00	5.60 pH	15.77 °C	694.52 µS/cm	0.17 mg/L	14.30 NTU	94.0 mV	3.52 ft	150.00 ml/min
2/1/2023 1:29 PM	45:00	5.60 pH	15.86 °C	696.00 µS/cm	0.06 mg/L	11.10 NTU	99.6 mV	3.52 ft	150.00 ml/min
2/1/2023 1:34 PM	50:00	5.61 pH	15.89 °C	696.91 µS/cm	0.04 mg/L	10.50 NTU	89.6 mV	3.52 ft	150.00 ml/min
2/1/2023 1:39 PM	55:00	5.60 pH	15.88 °C	690.22 µS/cm	0.04 mg/L	7.93 NTU	94.0 mV	3.52 ft	150.00 ml/min
2/1/2023 1:44 PM	01:00:00	5.61 pH	15.80 °C	696.37 µS/cm	0.03 mg/L	7.07 NTU	75.6 mV	3.52 ft	150.00 ml/min

2/1/2023 1:49 PM	01:05:00	5.61 pH	15.89 °C	691.11 µS/cm	0.03 mg/L	5.89 NTU	72.6 mV	3.52 ft	150.00 ml/min
2/1/2023 1:54 PM	01:10:00	5.61 pH	15.84 °C	691.47 µS/cm	0.03 mg/L	5.40 NTU	66.7 mV	3.53 ft	150.00 ml/min
2/1/2023 1:59 PM	01:15:00	5.61 pH	15.93 °C	690.04 µS/cm	0.03 mg/L	4.69 NTU	61.4 mV	3.53 ft	150.00 ml/min
2/1/2023 2:04 PM	01:20:00	5.61 pH	16.16 °C	693.58 µS/cm	0.03 mg/L	3.58 NTU	53.3 mV	3.53 ft	150.00 ml/min

## Samples

<b>Sample ID:</b> MCD-B-99	<b>Description:</b> Boron
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# Low-Flow Test Report:

Test Date / Time: 2/2/2023 10:19:46 AM

Project: Plant McDonough January 2023 SAE (5)

Operator Name: Taylor Johnson

<b>Location Name: MCD-B-100</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 37.93 ft</b> <b>Total Depth: 47.93 ft</b> <b>Initial Depth to Water: 34.04 ft</b>	<b>Pump Type: Bladder</b> <b>Tubing Type: HDPE</b> <b>Pump Intake From TOC: 42.93 ft</b> <b>Estimated Total Volume Pumped: 17246 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 120 ml/min</b> <b>Final Draw Down: 0.07 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 883553</b>
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## Test Notes:

Pre purged 1.5 liters

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	
2/2/2023 10:19 AM	00:00	5.28 pH	18.71 °C	781.16 µS/cm	0.38 mg/L	5.00 NTU	63.8 mV	34.04 ft	120.00 ml/min
2/2/2023 10:23 AM	04:00	5.28 pH	18.70 °C	785.14 µS/cm	0.41 mg/L	10.50 NTU	58.4 mV	34.09 ft	120.00 ml/min
2/2/2023 10:27 AM	08:00	5.28 pH	18.95 °C	782.07 µS/cm	0.45 mg/L	11.00 NTU	55.9 mV	34.01 ft	120.00 ml/min
2/2/2023 10:31 AM	12:00	5.29 pH	18.52 °C	778.33 µS/cm	0.44 mg/L	11.40 NTU	53.0 mV	34.06 ft	120.00 ml/min
2/2/2023 10:35 AM	15:43	5.29 pH	17.68 °C	780.86 µS/cm	0.42 mg/L	11.20 NTU	52.3 mV	34.06 ft	120.00 ml/min
2/2/2023 10:39 AM	19:43	5.29 pH	17.58 °C	779.89 µS/cm	0.57 mg/L	10.50 NTU	50.8 mV	34.05 ft	120.00 ml/min
2/2/2023 10:43 AM	23:43	5.29 pH	17.58 °C	779.46 µS/cm	0.57 mg/L	12.80 NTU	50.1 mV	34.03 ft	120.00 ml/min
2/2/2023 10:47 AM	27:43	5.29 pH	17.49 °C	779.14 µS/cm	0.60 mg/L	11.90 NTU	49.8 mV	34.05 ft	120.00 ml/min
2/2/2023 10:51 AM	31:43	5.29 pH	17.54 °C	779.73 µS/cm	0.61 mg/L	10.40 NTU	49.7 mV	34.04 ft	120.00 ml/min
2/2/2023 10:55 AM	35:43	5.29 pH	17.45 °C	778.73 µS/cm	0.61 mg/L	11.40 NTU	49.5 mV	34.04 ft	120.00 ml/min
2/2/2023 10:59 AM	39:43	5.30 pH	17.29 °C	778.68 µS/cm	0.62 mg/L	9.55 NTU	49.2 mV	34.04 ft	120.00 ml/min
2/2/2023 11:03 AM	43:43	5.30 pH	17.18 °C	779.62 µS/cm	0.64 mg/L	9.55 NTU	48.9 mV	34.06 ft	120.00 ml/min
2/2/2023 11:07 AM	47:43	5.30 pH	17.14 °C	779.35 µS/cm	0.64 mg/L	10.55 NTU	48.5 mV	34.03 ft	120.00 ml/min
2/2/2023 11:11 AM	51:43	5.30 pH	17.14 °C	780.29 µS/cm	0.65 mg/L	10.80 NTU	48.1 mV	34.04 ft	120.00 ml/min
2/2/2023 11:15 AM	55:43	5.30 pH	17.09 °C	779.89 µS/cm	0.64 mg/L	10.20 NTU	48.0 mV	34.03 ft	120.00 ml/min

2/2/2023 11:19 AM	59:43	5.30 pH	17.09 °C	779.43 µS/cm	0.62 mg/L	9.57 NTU	47.5 mV	34.04 ft	120.00 ml/min
2/2/2023 11:23 AM	01:03:43	5.30 pH	17.06 °C	779.94 µS/cm	0.63 mg/L	8.89 NTU	47.0 mV	34.04 ft	120.00 ml/min
2/2/2023 11:27 AM	01:07:43	5.30 pH	17.00 °C	779.63 µS/cm	0.63 mg/L	8.93 NTU	46.7 mV	34.05 ft	120.00 ml/min
2/2/2023 11:31 AM	01:11:43	5.30 pH	17.02 °C	782.59 µS/cm	0.61 mg/L	8.69 NTU	46.4 mV	34.05 ft	120.00 ml/min
2/2/2023 11:35 AM	01:15:43	5.30 pH	17.11 °C	782.66 µS/cm	0.61 mg/L	8.88 NTU	46.1 mV	34.04 ft	120.00 ml/min
2/2/2023 11:39 AM	01:19:43	5.30 pH	17.18 °C	783.20 µS/cm	0.61 mg/L	8.33 NTU	45.6 mV	34.02 ft	120.00 ml/min
2/2/2023 11:43 AM	01:23:43	5.30 pH	17.23 °C	781.96 µS/cm	0.60 mg/L	8.35 NTU	45.9 mV	34.02 ft	120.00 ml/min
2/2/2023 11:47 AM	01:27:43	5.30 pH	17.33 °C	783.28 µS/cm	0.62 mg/L	8.04 NTU	45.3 mV	34.01 ft	120.00 ml/min
2/2/2023 11:51 AM	01:31:43	5.30 pH	17.31 °C	782.28 µS/cm	0.60 mg/L	7.01 NTU	45.2 mV	33.99 ft	120.00 ml/min
2/2/2023 11:55 AM	01:35:43	5.30 pH	17.18 °C	783.22 µS/cm	0.60 mg/L	6.79 NTU	44.9 mV	34.00 ft	120.00 ml/min
2/2/2023 11:59 AM	01:39:43	5.30 pH	17.22 °C	785.32 µS/cm	0.60 mg/L	6.79 NTU	44.6 mV	34.01 ft	120.00 ml/min
2/2/2023 12:03 PM	01:43:43	5.30 pH	17.19 °C	782.86 µS/cm	0.58 mg/L	6.22 NTU	44.5 mV	33.98 ft	120.00 ml/min
2/2/2023 12:07 PM	01:47:43	5.30 pH	17.09 °C	786.55 µS/cm	0.58 mg/L	6.38 NTU	44.1 mV	34.00 ft	120.00 ml/min
2/2/2023 12:11 PM	01:51:43	5.30 pH	17.16 °C	785.92 µS/cm	0.58 mg/L	5.70 NTU	43.9 mV	34.00 ft	120.00 ml/min
2/2/2023 12:15 PM	01:55:43	5.30 pH	17.12 °C	786.32 µS/cm	0.57 mg/L	5.88 NTU	43.5 mV	33.99 ft	120.00 ml/min
2/2/2023 12:19 PM	01:59:43	5.30 pH	17.18 °C	782.64 µS/cm	0.57 mg/L	5.86 NTU	43.5 mV	33.99 ft	120.00 ml/min
2/2/2023 12:23 PM	02:03:43	5.30 pH	17.09 °C	784.79 µS/cm	0.56 mg/L	5.73 NTU	43.2 mV	34.00 ft	120.00 ml/min
2/2/2023 12:27 PM	02:07:43	5.30 pH	17.05 °C	784.45 µS/cm	0.55 mg/L	5.62 NTU	43.0 mV	33.98 ft	120.00 ml/min
2/2/2023 12:31 PM	02:11:43	5.31 pH	17.91 °C	782.11 µS/cm	0.54 mg/L	5.74 NTU	42.7 mV	33.97 ft	120.00 ml/min
2/2/2023 12:35 PM	02:15:43	5.30 pH	16.74 °C	783.35 µS/cm	0.51 mg/L	5.12 NTU	42.4 mV	33.95 ft	120.00 ml/min
2/2/2023 12:39 PM	02:19:43	5.30 pH	16.73 °C	785.42 µS/cm	0.51 mg/L	5.79 NTU	42.2 mV	33.97 ft	120.00 ml/min
2/2/2023 12:43 PM	02:23:43	5.30 pH	16.78 °C	787.01 µS/cm	0.50 mg/L	4.78 NTU	42.0 mV	33.97 ft	120.00 ml/min

## Samples

Sample ID:	Description:
MCD-B-100	TDS, Radium, metals, inorganics, alkalinity

# Low-Flow Test Report:

**Test Date / Time:** 2/3/2023 12:31:05 PM  
**Project:** Plant McDough January 2023 (8)  
**Operator Name:** Tiffany Messier

<b>Location Name: MCD-B-101D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 64.9 ft</b> <b>Total Depth: 74.9 ft</b> <b>Initial Depth to Water: 27.97 ft</b>	<b>Pump Type: Bladder</b> <b>Tubing Type: LDPE</b> <b>Pump Intake From TOC: 70 ft</b> <b>Estimated Total Volume Pumped: 3000 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 100 ml/min</b> <b>Final Draw Down: 6.03 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 851413</b>
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## Test Notes:

**Weather Conditions:**  
Sunny windy 44

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
2/3/2023 12:31 PM	00:00	5.94 pH	18.03 °C	472.04 µS/cm	1.06 mg/L	384.00 NTU	69.0 mV	27.97 ft	100.00 ml/min
2/3/2023 12:36 PM	05:00	5.94 pH	17.46 °C	465.99 µS/cm	0.56 mg/L	20.80 NTU	127.4 mV	31.60 ft	100.00 ml/min
2/3/2023 12:41 PM	10:00	5.94 pH	17.54 °C	461.98 µS/cm	0.50 mg/L	21.70 NTU	134.6 mV	32.94 ft	100.00 ml/min
2/3/2023 12:46 PM	15:00	5.95 pH	17.67 °C	459.44 µS/cm	0.44 mg/L	13.10 NTU	131.8 mV	34.00 ft	100.00 ml/min
2/3/2023 12:51 PM	20:00	5.95 pH	17.57 °C	459.63 µS/cm	0.48 mg/L	8.70 NTU	123.7 mV	34.00 ft	100.00 ml/min
2/3/2023 12:56 PM	25:00	5.94 pH	17.72 °C	458.61 µS/cm	0.47 mg/L	2.50 NTU	124.7 mV	34.00 ft	100.00 ml/min
2/3/2023 1:01 PM	30:00	5.95 pH	17.64 °C	455.51 µS/cm	0.49 mg/L	0.99 NTU	120.2 mV	34.00 ft	100.00 ml/min

## Samples

Sample ID:	Description:
MCD-B-101D	TDS, Radium, Metals, Inorganics, Alkalinity

Test Properties

Test Type = Low-Flow Test  
Test Date / Time = 2023-02-02 11:14:31  
Time Offset = -05:00:00  
Operator Name = Tiffany Messier  
Project = Plant McDoughn January 2023 (5)  
Initial Depth to Water = 31.42 ft  
Flow Cell Volume = 90 ml  
Final Draw Down = 0.65 ft  
Estimated Total Volume Pumped = 6750 ml

Pump Properties

Pump Type = Bladder  
Flow Rate = 150 ml/min  
Final Flow Rate = 150 ml/min  
Pump Intake From TOC = 80 ft

Tubing Properties

Tubing Type = LDPE

Location Properties

Location Name = MCD-B-102D  
Location ID = 46b93ea9-ece7-4598-906a-ebf714b23c23

Instrument Properties

Device Model = Aqua TROLL 400  
Device SN = 851413

Date Time	Elapsed Time	Depth to Water (ft)	Flow (ml/min)	Turbidity (NTU)	Temperature (°C)	Specific Conductivity (µS/cm)	Pressure (psi)	pH (pH)	f ORP (mV)
					(851413)	(851413)	(850987)	(21483)	r (21483)
2/2/2023 11:14	0:00:00	31.7	150	134	12.39423	621.9589	28.09773	6.401711	-28.66135
2/2/2023 11:19	0:05:00	31.9	150	48.7	14.56135	636.4174	28.08052	5.658904	57.54359
2/2/2023 11:24	0:10:00	31.9	150	18.4	14.85033	629.8288	28.15206	5.50218	98.61535
2/2/2023 11:29	0:15:00	32	150	12.9	15.21178	626.1015	28.04623	5.49697	86.38895
2/2/2023 11:34	0:20:00	32.01	150	8.35	15.38573	623.6973	28.10081	5.487963	116.421
2/2/2023 11:39	0:25:00	32.05	150	4.66	15.53615	624.6414	28.08261	5.476996	97.30875
2/2/2023 11:44	0:30:00	32.06	150	3.35	15.60379	625.1575	28.13651	5.470933	132.7708
2/2/2023 11:49	0:35:00	32.07	150	2.92	15.79179	625.6246	28.09165	5.471937	102.9951
2/2/2023 11:54	0:40:00	32.07	150	1.79	15.70667	627.3799	28.11126	5.467447	104.7538
2/2/2023 11:59	0:45:00	32.07	150	0.76	15.61076	627.6721	28.09642	5.468196	103.4473

Samples

MCD-B-102D: TDS, Radium, Metals, Inorganics, Alkalinity

Notes

Weather Conditions: Light rain 46

# Low-Flow Test Report:

Test Date / Time: 2/3/2023 10:39:48 AM

Project: Plant McDonough January 2023 SAE (7)

Operator Name: Taylor Johnson

<b>Location Name: MCD-B-104D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 50 ft</b> <b>Total Depth: 60 ft</b> <b>Initial Depth to Water: 4.45 ft</b>	<b>Pump Type: Bladder</b> <b>Tubing Type: HDPE</b> <b>Pump Intake From TOC: 55 ft</b> <b>Estimated Total Volume Pumped: 17944 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 120 ml/min</b> <b>Final Draw Down: 11.17 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 883553</b>
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## Test Notes:

Pre purged 1.5 liters, Aquatroll error on first reading- ignore, battery died halfway through reading

## 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	+/- 1000 %	+/- 0.3	
2/3/2023 10:39 AM	00:00	6.70 pH	14.76 °C	1,028.4 µS/cm	1.33 mg/L	5.00 NTU	-39.4 mV	4.45 ft	120.00 ml/min
2/3/2023 10:42 AM	02:20	6.73 pH	14.99 °C	1,023.9 µS/cm	1.22 mg/L		-38.5 mV	4.45 ft	120.00 ml/min
2/3/2023 10:46 AM	06:20	6.73 pH	14.97 °C	1,024.7 µS/cm	0.99 mg/L	21.10 NTU	-39.2 mV	7.01 ft	120.00 ml/min
2/3/2023 10:50 AM	10:20	6.73 pH	14.35 °C	1,014.4 µS/cm	0.93 mg/L	36.60 NTU	-37.9 mV	7.41 ft	120.00 ml/min
2/3/2023 10:54 AM	14:20	6.71 pH	14.52 °C	1,021.7 µS/cm	0.82 mg/L	50.60 NTU	-38.6 mV	7.70 ft	120.00 ml/min
2/3/2023 10:58 AM	18:20	6.68 pH	14.97 °C	1,022.2 µS/cm	0.75 mg/L	63.70 NTU	-38.2 mV	8.22 ft	120.00 ml/min
2/3/2023 11:02 AM	22:20	6.65 pH	15.34 °C	1,019.8 µS/cm	0.66 mg/L	58.90 NTU	-39.9 mV	8.22 ft	120.00 ml/min
2/3/2023 11:06 AM	26:20	6.64 pH	15.58 °C	1,017.4 µS/cm	0.61 mg/L	52.10 NTU	-39.5 mV	8.41 ft	120.00 ml/min
2/3/2023 11:10 AM	30:20	6.60 pH	15.61 °C	1,012.4 µS/cm	0.38 mg/L	56.00 NTU	-40.1 mV	8.95 ft	120.00 ml/min
2/3/2023 11:14 AM	34:20	6.62 pH	15.30 °C	1,011.4 µS/cm	0.36 mg/L	50.70 NTU	-40.9 mV	9.19 ft	120.00 ml/min
2/3/2023 11:18 AM	38:20	6.60 pH	15.45 °C	1,015.1 µS/cm	0.34 mg/L	39.10 NTU	-41.8 mV	9.44 ft	120.00 ml/min
2/3/2023 11:22 AM	42:20	6.61 pH	14.90 °C	1,004.7 µS/cm	0.35 mg/L	37.40 NTU	-39.8 mV	9.52 ft	120.00 ml/min
2/3/2023 11:26 AM	46:20	6.59 pH	14.65 °C	1,004.2 µS/cm	0.37 mg/L	33.30 NTU	-38.5 mV	9.58 ft	120.00 ml/min
2/3/2023 11:30 AM	50:20	6.58 pH	14.32 °C	1,005.3 µS/cm	0.47 mg/L	26.30 NTU	-37.2 mV	9.54 ft	120.00 ml/min
2/3/2023 11:32 AM	52:26	6.58 pH	14.45 °C	1,005.8 µS/cm	0.50 mg/L	26.30 NTU	-31.7 mV	9.54 ft	120.00 ml/min



2/3/2023 11:36 AM	56:26	6.58 pH	15.57 °C	1,006.9 µS/cm	0.53 mg/L		-37.3 mV	9.54 ft	120.00 ml/min
2/3/2023 11:40 AM	01:00:26	6.57 pH	16.33 °C	1,013.0 µS/cm	0.53 mg/L		-38.6 mV	9.54 ft	120.00 ml/min
2/3/2023 11:44 AM	01:04:26	6.57 pH	17.28 °C	1,015.7 µS/cm	0.59 mg/L		-39.4 mV	9.54 ft	120.00 ml/min
2/3/2023 11:48 AM	01:08:26	6.57 pH	18.1 °C	1,018.4 µS/cm	0.61 mg/L		-40.4 mV	9.54 ft	120.00 ml/min
2/3/2023 11:52 AM	01:12:26	6.56 pH	18.96 °C	1,022.0 µS/cm	0.64 mg/L		-41.0 mV	9.54 ft	120.00 ml/min
2/3/2023 11:56 AM	01:16:26	6.56 pH	19.67 °C	1,024.7 µS/cm	0.69 mg/L		-41.8 mV	9.54 ft	120.00 ml/min
2/3/2023 12:00 PM	01:20:26	6.56 pH	20.25 °C	1,027.9 µS/cm	0.75 mg/L		-42.2 mV	9.54 ft	120.00 ml/min
2/3/2023 12:25 PM	01:45:32	6.58 pH	21.20 °C	1,001.9 µS/cm	2.00 mg/L		-34.8 mV	9.54 ft	120.00 ml/min
2/3/2023 12:29 PM	01:49:32	6.45 pH	17.71 °C	1,039.5 µS/cm	0.29 mg/L	11.80 NTU	-24.0 mV	9.53 ft	120.00 ml/min
2/3/2023 12:33 PM	01:53:32	6.33 pH	17.49 °C	1,034.6 µS/cm	0.64 mg/L	6.25 NTU	-18.2 mV	10.21 ft	120.00 ml/min
2/3/2023 12:37 PM	01:57:32	6.31 pH	17.47 °C	1,028.5 µS/cm	0.34 mg/L	5.54 NTU	-21.2 mV	11.43 ft	120.00 ml/min
2/3/2023 12:41 PM	02:01:32	6.31 pH	17.44 °C	1,024.9 µS/cm	0.20 mg/L	3.69 NTU	-30.8 mV	12.10 ft	120.00 ml/min
2/3/2023 12:45 PM	02:05:32	6.27 pH	17.56 °C	1,022.4 µS/cm	0.12 mg/L	3.53 NTU	-31.1 mV	12.71 ft	120.00 ml/min
2/3/2023 12:49 PM	02:09:32	6.25 pH	17.67 °C	1,023.0 µS/cm	0.09 mg/L	2.75 NTU	-31.4 mV	13.07 ft	120.00 ml/min
2/3/2023 12:53 PM	02:13:32	6.23 pH	17.71 °C	1,023.3 µS/cm	0.08 mg/L	2.53 NTU	-29.9 mV	14.25 ft	120.00 ml/min
2/3/2023 12:57 PM	02:17:32	6.21 pH	17.76 °C	1,019.8 µS/cm	0.07 mg/L	3.24 NTU	-27.8 mV	14.99 ft	120.00 ml/min
2/3/2023 1:01 PM	02:21:32	6.20 pH	17.77 °C	1,023.7 µS/cm	0.06 mg/L	2.40 NTU	-28.1 mV	15.31 ft	120.00 ml/min
2/3/2023 1:05 PM	02:25:32	6.18 pH	17.89 °C	1,023.1 µS/cm	0.04 mg/L	2.02 NTU	-25.0 mV	15.62 ft	120.00 ml/min
2/3/2023 1:09 PM	02:29:32	6.17 pH	17.91 °C	1,022.6 µS/cm	0.02 mg/L	1.34 NTU	-22.0 mV	15.62 ft	120.00 ml/min

## Samples

Sample ID:	Description:
MCD-B-104D	TDS, Radium, metals, inorganics alkalinity

# Low-Flow Test Report:

**Test Date / Time:** 2/7/2023 3:02:19 PM

**Project:** Plant McDonough January 2023 SAE (14)

**Operator Name:** Ever Guillen

<b>Location Name:</b> MCD-B106D <b>Well Diameter:</b> 2 in <b>Casing Type:</b> PVC <b>Screen Length:</b> 10 ft <b>Top of Screen:</b> 69.4 ft <b>Total Depth:</b> 79.4 ft <b>Initial Depth to Water:</b> 39 ft	<b>Pump Type:</b> Dedicated Bladder Pump <b>Tubing Type:</b> PE <b>Pump Intake From TOC:</b> 74 ft <b>Estimated Total Volume Pumped:</b> 8000 ml <b>Flow Cell Volume:</b> 90 ml <b>Final Flow Rate:</b> 200 ml/min <b>Final Draw Down:</b> 0 ft	<b>Instrument Used:</b> Aqua TROLL 400 <b>Serial Number:</b> 884189
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## Test Notes:

Sample time =1545

## Weather Conditions:

Cold, cloudy, dry

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/7/2023 3:02 PM	00:00	5.92 pH	22.91 °C	371.58 µS/cm	7.21 mg/L	18.70 NTU	131.3 mV	39.00 ft	200.00 ml/min
2/7/2023 3:07 PM	05:00	5.85 pH	24.23 °C	359.14 µS/cm	2.53 mg/L	14.20 NTU	144.2 mV	39.00 ft	200.00 ml/min
2/7/2023 3:12 PM	10:00	5.86 pH	23.62 °C	353.07 µS/cm	1.81 mg/L	12.20 NTU	144.5 mV	39.00 ft	200.00 ml/min
2/7/2023 3:17 PM	15:00	5.86 pH	22.00 °C	355.99 µS/cm	1.54 mg/L	8.37 NTU	143.5 mV	39.00 ft	200.00 ml/min
2/7/2023 3:22 PM	20:00	5.86 pH	22.96 °C	354.79 µS/cm	1.47 mg/L	2.73 NTU	125.4 mV	39.00 ft	200.00 ml/min
2/7/2023 3:27 PM	25:00	5.86 pH	22.39 °C	354.09 µS/cm	1.43 mg/L	2.32 NTU	122.6 mV	39.00 ft	200.00 ml/min
2/7/2023 3:32 PM	30:00	5.85 pH	22.49 °C	355.79 µS/cm	1.33 mg/L	1.27 NTU	137.2 mV	39.00 ft	200.00 ml/min
2/7/2023 3:37 PM	35:00	5.86 pH	22.49 °C	355.61 µS/cm	1.31 mg/L	1.15 NTU	121.6 mV	39.00 ft	200.00 ml/min
2/7/2023 3:42 PM	40:00	5.86 pH	22.63 °C	356.41 µS/cm	1.30 mg/L	1.19 NTU	135.0 mV	39.00 ft	200.00 ml/min

## Samples

<b>Sample ID:</b> MCD-B-106D	<b>Description:</b> TDS, Radium, Metals, Inorganics, Alkalinity
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# Low-Flow Test Report:

Test Date / Time: 2/6/2023 2:04:51 PM

Project: Plant McDonough January 2023 SAE (10)

Operator Name: Taylor Johnson

<b>Location Name: MCD-B-107D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 75.5 ft</b> <b>Total Depth: 85.5 ft</b> <b>Initial Depth to Water: 23.38 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: HDPE</b> <b>Pump Intake From TOC: 80.5 ft</b> <b>Estimated Total Volume Pumped: 7570 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 145 ml/min</b> <b>Final Draw Down: 0.06 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 883553</b>
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## Test Notes:

Pre purged 1.5 liters

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	
2/6/2023 2:04 PM	00:00	5.92 pH	19.89 °C	708.41 µS/cm	0.18 mg/L	5.00 NTU	45.9 mV	23.38 ft	145.00 ml/min
2/6/2023 2:08 PM	04:00	5.91 pH	19.67 °C	703.79 µS/cm	0.15 mg/L	2.66 NTU	46.0 mV	23.44 ft	145.00 ml/min
2/6/2023 2:12 PM	08:00	5.91 pH	19.59 °C	707.80 µS/cm	0.13 mg/L	3.05 NTU	46.0 mV	23.44 ft	145.00 ml/min
2/6/2023 2:16 PM	12:00	5.90 pH	19.61 °C	705.83 µS/cm	0.12 mg/L	2.30 NTU	46.7 mV	23.44 ft	145.00 ml/min
2/6/2023 2:20 PM	16:00	5.90 pH	19.50 °C	705.66 µS/cm	0.11 mg/L	2.00 NTU	46.6 mV	23.45 ft	145.00 ml/min
2/6/2023 2:24 PM	20:00	5.90 pH	19.42 °C	705.90 µS/cm	0.10 mg/L	1.89 NTU	46.2 mV	23.44 ft	145.00 ml/min

## Samples

Sample ID:	Description:
MCD-B-107D	TDS, Radium, metals, inorganics, alkalinity

# Low-Flow Test Report:

**Test Date / Time:** 2/7/2023 12:38:07 PM

**Project:** Plant McDonough January 2023 SAE (12)

**Operator Name:** Taylor Johnson

<b>Location Name: MCD-B-108 D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 69 ft</b> <b>Total Depth: 79 ft</b> <b>Initial Depth to Water: 22.25 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: HDPE</b> <b>Pump Intake From TOC: 74 ft</b> <b>Estimated Total Volume Pumped: 4800 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.64 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 883553</b>
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## Test Notes:

Pre purged 1.5 liters

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	
2/7/2023 12:38 PM	00:00	5.93 pH	19.90 °C	747.45 µS/cm	0.21 mg/L	5.00 NTU	68.1 mV	22.25 ft	200.00 ml/min
2/7/2023 12:42 PM	04:00	5.93 pH	19.85 °C	737.58 µS/cm	0.16 mg/L	9.59 NTU	57.6 mV	22.81 ft	200.00 ml/min
2/7/2023 12:46 PM	08:00	5.92 pH	19.89 °C	736.68 µS/cm	0.13 mg/L	6.27 NTU	51.7 mV	22.88 ft	200.00 ml/min
2/7/2023 12:50 PM	12:00	5.92 pH	19.85 °C	737.36 µS/cm	0.11 mg/L	4.84 NTU	46.4 mV	22.88 ft	200.00 ml/min
2/7/2023 12:54 PM	16:00	5.92 pH	19.90 °C	738.38 µS/cm	0.11 mg/L	2.40 NTU	42.9 mV	22.88 ft	200.00 ml/min
2/7/2023 12:58 PM	20:00	5.92 pH	19.85 °C	737.45 µS/cm	0.10 mg/L	2.70 NTU	39.9 mV	22.89 ft	200.00 ml/min
2/7/2023 1:02 PM	24:00	5.92 pH	20.05 °C	736.72 µS/cm	0.10 mg/L	0.97 NTU	37.3 mV	22.89 ft	200.00 ml/min

## Samples

Sample ID:	Description:
MCD-B-108D	TDS, Radium, metals, inorganics, alkalinity

# Low-Flow Test Report:

Test Date / Time: 2/6/2023 11:02:43 AM

Project: Jan. SAE 2023 McDonough (4)

Operator Name: Mark Mann

<b>Location Name: MCD-B-109D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 92.12 ft</b> <b>Total Depth: 102.12 ft</b> <b>Initial Depth to Water: 38.15 ft</b>	<b>Pump Type: Bladder</b> <b>Tubing Type: Tru-Poly</b> <b>Pump Intake From TOC: 97 ft</b> <b>Estimated Total Volume Pumped: 4950 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 110 ml/min</b> <b>Final Draw Down: 3.11 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 851413</b>
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## Test Notes:

## Weather Conditions:

Sunny

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/6/2023 11:02 AM	00:00	6.80 pH	25.31 °C	321.43 µS/cm	3.26 mg/L	0.10 NTU	-95.4 mV	38.15 ft	110.00 ml/min
2/6/2023 11:07 AM	05:00	6.57 pH	19.15 °C	422.20 µS/cm	1.31 mg/L	1.16 NTU	-90.0 mV	39.45 ft	110.00 ml/min
2/6/2023 11:12 AM	10:00	6.50 pH	18.83 °C	432.78 µS/cm	0.90 mg/L	0.00 NTU	-78.5 mV	39.93 ft	110.00 ml/min
2/6/2023 11:17 AM	15:00	6.47 pH	18.92 °C	429.46 µS/cm	0.49 mg/L	0.00 NTU	-71.8 mV	40.18 ft	110.00 ml/min
2/6/2023 11:22 AM	20:00	6.48 pH	19.14 °C	431.67 µS/cm	0.44 mg/L	0.00 NTU	-64.3 mV	40.47 ft	110.00 ml/min
2/6/2023 11:27 AM	25:00	6.45 pH	19.27 °C	432.41 µS/cm	0.37 mg/L	0.00 NTU	-45.1 mV	40.65 ft	110.00 ml/min
2/6/2023 11:32 AM	30:00	6.46 pH	19.37 °C	431.87 µS/cm	0.35 mg/L	0.00 NTU	-54.0 mV	40.85 ft	110.00 ml/min
2/6/2023 11:37 AM	35:00	6.47 pH	19.24 °C	435.13 µS/cm	0.51 mg/L	0.00 NTU	-53.7 mV	41.06 ft	110.00 ml/min
2/6/2023 11:42 AM	40:00	6.47 pH	19.28 °C	435.14 µS/cm	0.42 mg/L	0.00 NTU	-48.5 mV	41.18 ft	110.00 ml/min
2/6/2023 11:47 AM	45:00	6.44 pH	19.41 °C	436.03 µS/cm	0.26 mg/L	0.00 NTU	-39.3 mV	41.26 ft	110.00 ml/min

## Samples

Sample ID:	Description:
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B-109D	TDS, Radium, metals, inorganics, alkalinity
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# Low-Flow Test Report:

Test Date / Time: 2/7/2023 10:59:55 AM

Project: Jan. SAE 2023 McDonough (7)

Operator Name: Mark Mann

<b>Location Name: MCD-B-111D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 74.2 ft</b> <b>Total Depth: 84.2 ft</b> <b>Initial Depth to Water: 10.54 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: Tru-Poly</b> <b>Pump Intake From TOC: 79 ft</b> <b>Estimated Total Volume Pumped: 8000 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 1.93 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 851413</b>
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## Test Notes:

## Weather Conditions:

Sunny

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/7/2023 10:59 AM	00:00	6.31 pH	24.96 °C	733.20 µS/cm	5.22 mg/L	6.73 NTU	279.1 mV	10.54 ft	200.00 ml/min
2/7/2023 11:04 AM	05:00	6.91 pH	18.43 °C	821.93 µS/cm	0.34 mg/L	8.99 NTU	139.2 mV	11.44 ft	200.00 ml/min
2/7/2023 11:09 AM	10:00	7.05 pH	18.28 °C	833.21 µS/cm	0.22 mg/L	4.27 NTU	92.0 mV	11.73 ft	200.00 ml/min
2/7/2023 11:14 AM	15:00	7.18 pH	18.12 °C	885.82 µS/cm	0.17 mg/L	4.17 NTU	-86.8 mV	11.89 ft	200.00 ml/min
2/7/2023 11:19 AM	20:00	7.39 pH	18.25 °C	878.82 µS/cm	0.14 mg/L	4.55 NTU	-149.5 mV	12.11 ft	200.00 ml/min
2/7/2023 11:24 AM	25:00	7.45 pH	18.02 °C	840.20 µS/cm	0.14 mg/L	4.18 NTU	-142.6 mV	12.22 ft	200.00 ml/min
2/7/2023 11:29 AM	30:00	7.39 pH	18.06 °C	802.29 µS/cm	0.13 mg/L	3.23 NTU	-122.4 mV	12.30 ft	200.00 ml/min
2/7/2023 11:34 AM	35:00	7.36 pH	18.08 °C	780.84 µS/cm	0.14 mg/L	3.21 NTU	-135.5 mV	12.41 ft	200.00 ml/min
2/7/2023 11:39 AM	40:00	7.30 pH	17.94 °C	764.16 µS/cm	0.12 mg/L	2.29 NTU	-102.2 mV	12.47 ft	200.00 ml/min

## Samples

Sample ID:	Description:
B-111D	TDS, Radium, metals, inorganics, alkalinity

FB-6	TDS, Radium, metals, inorganics, alkalinity
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# Low-Flow Test Report:

Test Date / Time: 2/6/2023 3:37:31 PM

Project: Plant McDonough January 2023 SAE (11)

Operator Name: Ever Guillen

<b>Location Name: MCD-B-115D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 70 ft</b> <b>Total Depth: 80 ft</b> <b>Initial Depth to Water: 20.23 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: PE</b> <b>Pump Intake From TOC: 75 ft</b> <b>Estimated Total Volume Pumped: 10000 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 150 ml/min</b> <b>Final Draw Down: 0.35 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 884189</b>
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## Test Notes:

Sample time =1625

## Weather Conditions:

Cold, clear, dry

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/6/2023 3:37 PM	00:00	5.28 pH	21.74 °C	703.04 µS/cm	5.07 mg/L	13.90 NTU	129.3 mV	20.23 ft	150.00 ml/min
2/6/2023 3:42 PM	05:00	4.95 pH	21.02 °C	712.19 µS/cm	4.96 mg/L	9.63 NTU	154.5 mV	20.23 ft	150.00 ml/min
2/6/2023 3:47 PM	10:00	4.94 pH	20.84 °C	724.08 µS/cm	6.36 mg/L	7.24 NTU	167.4 mV	20.58 ft	150.00 ml/min
2/6/2023 3:52 PM	15:00	4.92 pH	20.31 °C	714.45 µS/cm	5.34 mg/L	5.42 NTU	172.8 mV	20.58 ft	150.00 ml/min
2/6/2023 3:57 PM	20:00	4.89 pH	20.63 °C	719.99 µS/cm	4.66 mg/L	3.58 NTU	210.2 mV	20.58 ft	150.00 ml/min
2/6/2023 4:02 PM	25:00	4.90 pH	20.08 °C	719.78 µS/cm	3.74 mg/L	2.37 NTU	213.5 mV	20.58 ft	150.00 ml/min
2/6/2023 4:07 PM	30:00	4.92 pH	20.30 °C	721.07 µS/cm	2.49 mg/L	2.75 NTU	213.2 mV	20.58 ft	150.00 ml/min
2/6/2023 4:12 PM	35:00	4.91 pH	19.93 °C	720.66 µS/cm	2.27 mg/L	2.64 NTU	178.2 mV	20.58 ft	150.00 ml/min
2/6/2023 4:17 PM	40:00	4.90 pH	19.85 °C	723.56 µS/cm	2.13 mg/L	2.64 NTU	177.2 mV	20.58 ft	150.00 ml/min
2/6/2023 4:22 PM	45:00	4.90 pH	20.31 °C	713.83 µS/cm	2.06 mg/L	2.58 NTU	176.8 mV	20.58 ft	150.00 ml/min
2/6/2023 4:27 PM	50:00	4.88 pH	20.40 °C	722.10 µS/cm	1.96 mg/L		176.8 mV	20.58 ft	150.00 ml/min

## Samples

**Sample ID:**

MCD-B-115D

**Description:** TDS, Radium, Metals, Inorganics, Alkalinity

Created using VuSitu from In-Situ, Inc.

# Low-Flow Test Report:

Test Date / Time: 2/3/2023 10:21:55 AM

Project: Jan. SAE 2023 McDonough (5)

Operator Name: M. Mann

<b>Location Name: MCD-B-120D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 62.08 ft</b> <b>Total Depth: 72.08 ft</b> <b>Initial Depth to Water: 35.33 ft</b>	<b>Pump Type: Bladder</b> <b>Tubing Type: Tru-Poly</b> <b>Pump Intake From TOC: 67 ft</b> <b>Estimated Total Volume Pumped: 7680 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.02 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 884187</b>
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## Test Notes:

## Weather Conditions:

Sunny

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/3/2023 10:21 AM	00:00	6.16 pH	22.58 °C	415.47 µS/cm	4.62 mg/L	16.20 NTU	96.6 mV	35.33 ft	200.00 ml/min
2/3/2023 10:26 AM	05:00	5.29 pH	17.80 °C	931.13 µS/cm	0.47 mg/L	14.00 NTU	98.7 mV	35.35 ft	200.00 ml/min
2/3/2023 10:31 AM	10:00	5.27 pH	17.78 °C	942.26 µS/cm	0.28 mg/L	21.50 NTU	100.4 mV	35.38 ft	200.00 ml/min
2/3/2023 10:35 AM	13:24	5.27 pH	17.77 °C	940.87 µS/cm	0.24 mg/L	28.50 NTU	99.6 mV	35.41 ft	200.00 ml/min
2/3/2023 10:40 AM	18:24	5.26 pH	17.91 °C	938.99 µS/cm	0.19 mg/L	7.94 NTU	101.0 mV	35.39 ft	200.00 ml/min
2/3/2023 10:45 AM	23:24	5.26 pH	17.91 °C	933.83 µS/cm	0.16 mg/L	6.80 NTU	99.7 mV	35.37 ft	200.00 ml/min
2/3/2023 10:50 AM	28:24	5.25 pH	18.02 °C	930.04 µS/cm	0.14 mg/L	4.44 NTU	100.7 mV	35.38 ft	200.00 ml/min
2/3/2023 10:55 AM	33:24	5.25 pH	18.22 °C	928.68 µS/cm	0.11 mg/L	2.86 NTU	99.6 mV	35.41 ft	200.00 ml/min
2/3/2023 11:00 AM	38:24	5.25 pH	18.09 °C	926.38 µS/cm	0.09 mg/L	1.96 NTU	99.5 mV	35.35 ft	200.00 ml/min

## Samples

Sample ID:	Description:
B-120D	TDS, Metals, Radium, Inorganics, Alkalinity

# Low-Flow Test Report:

Test Date / Time: 2/6/2023 9:38:51 AM

Project: Plant McDonough January 2023 SAE (9)

Operator Name: Ever Guillen

<b>Location Name: MCD-B-122D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 70.63 ft</b> <b>Total Depth: 80.63 ft</b> <b>Initial Depth to Water: 27.71 ft</b>	<b>Pump Type: Bladder pump</b> <b>Tubing Type: PE</b> <b>Pump Intake From TOC: 43 ft</b> <b>Estimated Total Volume Pumped: 11250 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 150 ml/min</b> <b>Final Draw Down: 1.05 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 884189</b>
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## Test Notes:

Sample time =1050

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/6/2023 9:38 AM	00:00	6.26 pH	13.72 °C	398.00 µS/cm	7.33 mg/L	14.80 NTU	79.1 mV	27.71 ft	200.00 ml/min
2/6/2023 9:43 AM	05:00	6.03 pH	13.63 °C	462.66 µS/cm	2.31 mg/L	19.20 NTU	38.5 mV	28.33 ft	200.00 ml/min
2/6/2023 9:48 AM	10:00	6.03 pH	13.68 °C	473.49 µS/cm	1.20 mg/L	16.80 NTU	36.8 mV	28.76 ft	200.00 ml/min
2/6/2023 9:53 AM	15:00	6.04 pH	13.97 °C	475.33 µS/cm	0.88 mg/L	15.30 NTU	33.6 mV	28.76 ft	150.00 ml/min
2/6/2023 9:58 AM	20:00	6.05 pH	14.04 °C	472.41 µS/cm	0.74 mg/L	12.50 NTU	31.2 mV	28.76 ft	150.00 ml/min
2/6/2023 10:03 AM	25:00	6.07 pH	13.44 °C	467.24 µS/cm	0.87 mg/L	11.70 NTU	31.0 mV	28.76 ft	150.00 ml/min
2/6/2023 10:08 AM	30:00	6.08 pH	12.77 °C	467.88 µS/cm	1.00 mg/L	11.20 NTU	31.0 mV	28.76 ft	150.00 ml/min
2/6/2023 10:13 AM	35:00	6.08 pH	12.76 °C	470.47 µS/cm	1.03 mg/L	10.40 NTU	30.5 mV	28.76 ft	150.00 ml/min
2/6/2023 10:18 AM	40:00	6.09 pH	12.86 °C	474.49 µS/cm	1.20 mg/L	9.72 NTU	30.6 mV	28.76 ft	150.00 ml/min
2/6/2023 10:23 AM	45:00	6.09 pH	13.06 °C	478.63 µS/cm	1.21 mg/L	7.02 NTU	30.4 mV	28.76 ft	150.00 ml/min
2/6/2023 10:28 AM	50:00	6.10 pH	13.19 °C	480.19 µS/cm	1.23 mg/L	6.08 NTU	29.9 mV	28.76 ft	150.00 ml/min
2/6/2023 10:33 AM	55:00	6.09 pH	13.50 °C	481.84 µS/cm	1.31 mg/L	4.81 NTU	29.6 mV	28.76 ft	150.00 ml/min
2/6/2023 10:38 AM	01:00:00	6.09 pH	13.85 °C	485.68 µS/cm	1.26 mg/L	3.13 NTU	29.7 mV	28.76 ft	150.00 ml/min
2/6/2023 10:43 AM	01:05:00	6.08 pH	14.68 °C	480.03 µS/cm	1.14 mg/L	1.87 NTU	28.6 mV	28.76 ft	150.00 ml/min
2/6/2023 10:48 AM	01:10:00	6.08 pH	14.98 °C	484.57 µS/cm	1.04 mg/L	0.89 NTU	27.5 mV	28.76 ft	150.00 ml/min

**Samples**

<b>Sample ID:</b> MCD-B-122D	<b>Description:</b> TDS, Radium, Metals, Inorganics, Alkalinity
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# Low-Flow Test Report:

Test Date / Time: 2/9/2023 10:37:11 AM

Project: Jan. SAE 2023 McDonough (9)

Operator Name: Mark Mann

<b>Location Name: MCD-B-123D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 50 ft</b> <b>Top of Screen: 111.9 ft</b> <b>Total Depth: 161.9 ft</b> <b>Initial Depth to Water: 13.48 ft</b>	<b>Pump Type: Bladder</b> <b>Tubing Type: Tru-Poly</b> <b>Pump Intake From TOC: 133 ft</b> <b>Estimated Total Volume Pumped: 53830.332 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 220 ml/min</b> <b>Final Draw Down: 11.43 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 851413</b>
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## Test Notes:

## Weather Conditions:

Light Rain

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/9/2023 10:37 AM	00:00	6.33 pH	17.78 °C	746.02 µS/cm	4.11 mg/L	20.90 NTU	44.1 mV	13.48 ft	220.00 ml/min
2/9/2023 10:42 AM	05:00	6.30 pH	19.01 °C	762.26 µS/cm	7.78 mg/L	22.70 NTU	18.2 mV	15.04 ft	220.00 ml/min
2/9/2023 10:47 AM	10:00	6.32 pH	19.14 °C	757.03 µS/cm	7.34 mg/L	23.50 NTU	15.9 mV	16.11 ft	220.00 ml/min
2/9/2023 10:52 AM	15:00	6.32 pH	19.22 °C	763.68 µS/cm	7.35 mg/L	20.80 NTU	14.6 mV	17.45 ft	220.00 ml/min
2/9/2023 10:57 AM	20:00	6.32 pH	19.11 °C	763.27 µS/cm	7.18 mg/L	23.90 NTU	14.1 mV	17.90 ft	220.00 ml/min
2/9/2023 11:01 AM	24:30	6.32 pH	19.17 °C	762.23 µS/cm	7.06 mg/L	21.70 NTU	14.2 mV	18.45 ft	220.00 ml/min
2/9/2023 11:06 AM	29:30	6.32 pH	19.28 °C	760.93 µS/cm	7.04 mg/L	20.50 NTU	14.4 mV	18.89 ft	220.00 ml/min
2/9/2023 11:11 AM	34:30	6.32 pH	19.23 °C	759.60 µS/cm	7.01 mg/L	20.70 NTU	14.2 mV	19.30 ft	220.00 ml/min
2/9/2023 11:16 AM	39:30	6.32 pH	19.18 °C	761.04 µS/cm	6.89 mg/L	19.80 NTU	14.0 mV	19.86 ft	220.00 ml/min
2/9/2023 11:21 AM	44:30	6.31 pH	19.23 °C	761.44 µS/cm	7.04 mg/L	21.00 NTU	13.2 mV	20.08 ft	220.00 ml/min
2/9/2023 11:26 AM	49:30	6.31 pH	19.31 °C	764.03 µS/cm	7.24 mg/L	19.80 NTU	13.5 mV	20.59 ft	220.00 ml/min
2/9/2023 11:31 AM	54:30	6.30 pH	19.33 °C	765.55 µS/cm	7.28 mg/L	20.80 NTU	13.2 mV	20.88 ft	220.00 ml/min
2/9/2023 11:36 AM	59:30	6.30 pH	19.32 °C	766.37 µS/cm	7.15 mg/L	19.90 NTU	13.0 mV	21.15 ft	220.00 ml/min

2/9/2023 11:41 AM	01:04:30	6.30 pH	19.41 °C	765.25 µS/cm	7.06 mg/L	19.50 NTU	12.8 mV	21.45 ft	220.00 ml/min
2/9/2023 11:46 AM	01:09:42	6.30 pH	19.46 °C	764.91 µS/cm	7.20 mg/L	19.70 NTU	12.5 mV	21.74 ft	220.00 ml/min
2/9/2023 11:51 AM	01:14:42	6.29 pH	19.45 °C	766.63 µS/cm	7.03 mg/L	19.60 NTU	12.6 mV	21.99 ft	220.00 ml/min
2/9/2023 11:56 AM	01:19:11	6.29 pH	19.50 °C	767.72 µS/cm	6.90 mg/L	19.30 NTU	12.1 mV	22.20 ft	220.00 ml/min
2/9/2023 12:01 PM	01:24:11	6.29 pH	19.54 °C	769.20 µS/cm	7.09 mg/L	19.20 NTU	11.1 mV	22.39 ft	220.00 ml/min
2/9/2023 12:06 PM	01:29:11	6.29 pH	19.61 °C	772.67 µS/cm	7.13 mg/L	19.80 NTU	10.2 mV	22.71 ft	220.00 ml/min
2/9/2023 12:11 PM	01:34:11	6.29 pH	19.63 °C	775.98 µS/cm	7.28 mg/L	19.20 NTU	8.2 mV	22.85 ft	220.00 ml/min
2/9/2023 12:16 PM	01:39:11	6.29 pH	19.68 °C	777.27 µS/cm	7.07 mg/L	18.60 NTU	8.1 mV	23.09 ft	220.00 ml/min
2/9/2023 12:21 PM	01:44:11	6.28 pH	19.72 °C	781.23 µS/cm	7.04 mg/L	18.30 NTU	7.6 mV	23.11 ft	220.00 ml/min
2/9/2023 12:26 PM	01:49:11	6.28 pH	19.72 °C	782.69 µS/cm	7.02 mg/L	19.30 NTU	6.8 mV	23.23 ft	220.00 ml/min
2/9/2023 12:31 PM	01:54:11	6.28 pH	19.81 °C	788.97 µS/cm	6.88 mg/L	18.30 NTU	5.8 mV	23.38 ft	220.00 ml/min
2/9/2023 12:32 PM	01:55:46	6.28 pH	19.84 °C	790.29 µS/cm	6.85 mg/L	18.00 NTU	5.4 mV	23.41 ft	220.00 ml/min
2/9/2023 12:37 PM	02:00:46	6.27 pH	19.85 °C	795.16 µS/cm	6.78 mg/L	17.50 NTU	4.6 mV	23.54 ft	220.00 ml/min
2/9/2023 12:42 PM	02:05:46	6.27 pH	19.90 °C	801.06 µS/cm	6.75 mg/L	17.90 NTU	3.9 mV	23.66 ft	220.00 ml/min
2/9/2023 12:48 PM	02:11:23	6.27 pH	20.03 °C	804.05 µS/cm	6.60 mg/L	18.60 NTU	2.6 mV	23.74 ft	220.00 ml/min
2/9/2023 12:53 PM	02:16:23	6.27 pH	20.09 °C	810.05 µS/cm	6.50 mg/L	18.00 NTU	2.3 mV	23.85 ft	220.00 ml/min
2/9/2023 12:55 PM	02:18:30	6.27 pH	20.04 °C	810.86 µS/cm	6.48 mg/L	17.80 NTU	2.2 mV	23.89 ft	220.00 ml/min
2/9/2023 1:00 PM	02:23:30	6.27 pH	19.99 °C	812.72 µS/cm	6.49 mg/L	17.30 NTU	2.3 mV	23.94 ft	220.00 ml/min
2/9/2023 1:05 PM	02:28:30	6.27 pH	19.99 °C	813.97 µS/cm	6.39 mg/L	19.20 NTU	1.7 mV	24.04 ft	220.00 ml/min
2/9/2023 1:10 PM	02:33:30	6.27 pH	20.12 °C	816.05 µS/cm	6.28 mg/L	17.40 NTU	0.7 mV	24.09 ft	220.00 ml/min
2/9/2023 1:15 PM	02:38:30	6.27 pH	20.32 °C	818.26 µS/cm	6.19 mg/L	17.50 NTU	-0.2 mV	24.18 ft	220.00 ml/min
2/9/2023 1:20 PM	02:43:30	6.27 pH	20.48 °C	821.18 µS/cm	6.09 mg/L	17.70 NTU	-1.3 mV	24.22 ft	220.00 ml/min
2/9/2023 1:25 PM	02:48:30	6.28 pH	20.48 °C	824.46 µS/cm	6.02 mg/L	17.70 NTU	-4.0 mV	24.27 ft	220.00 ml/min
2/9/2023 1:30 PM	02:53:30	6.28 pH	20.31 °C	826.05 µS/cm	5.92 mg/L	17.70 NTU	-4.2 mV	24.32 ft	220.00 ml/min
2/9/2023 1:46 PM	03:09:29	6.28 pH	20.35 °C	835.02 µS/cm	5.67 mg/L	17.90 NTU	-5.2 mV	24.44 ft	220.00 ml/min
2/9/2023 1:51 PM	03:14:29	6.28 pH	20.39 °C	838.84 µS/cm	5.58 mg/L	17.90 NTU	-5.9 mV	24.49 ft	220.00 ml/min
2/9/2023 1:56 PM	03:19:19	6.27 pH	20.21 °C	849.49 µS/cm	5.50 mg/L	18.60 NTU	-6.5 mV	24.52 ft	220.00 ml/min
2/9/2023 2:01 PM	03:24:19	6.28 pH	20.04 °C	849.82 µS/cm	5.48 mg/L	18.20 NTU	-6.3 mV	24.58 ft	220.00 ml/min
2/9/2023 2:06 PM	03:29:41	6.28 pH	19.97 °C	851.41 µS/cm	5.43 mg/L	18.00 NTU	-6.6 mV	24.65 ft	220.00 ml/min

2/9/2023 2:11 PM	03:34:41	6.28 pH	19.99 °C	852.25 µS/cm	5.38 mg/L	18.10 NTU	-6.7 mV	24.69 ft	220.00 ml/min
2/9/2023 2:16 PM	03:39:41	6.28 pH	19.90 °C	853.56 µS/cm	5.31 mg/L	17.80 NTU	-7.1 mV	24.72 ft	220.00 ml/min
2/9/2023 2:21 PM	03:44:41	6.28 pH	19.90 °C	854.16 µS/cm	5.27 mg/L	19.00 NTU	-7.3 mV	24.75 ft	220.00 ml/min
2/9/2023 2:26 PM	03:49:41	6.28 pH	19.84 °C	855.30 µS/cm	5.21 mg/L	18.90 NTU	-7.6 mV	24.80 ft	220.00 ml/min
2/9/2023 2:31 PM	03:54:41	6.28 pH	19.84 °C	855.10 µS/cm	5.21 mg/L	18.00 NTU	-7.6 mV	24.83 ft	220.00 ml/min
2/9/2023 2:36 PM	03:59:41	6.28 pH	19.81 °C	855.29 µS/cm	5.20 mg/L	18.10 NTU	-7.6 mV	24.87 ft	220.00 ml/min
2/9/2023 2:41 PM	04:04:41	6.28 pH	19.83 °C	855.23 µS/cm	5.16 mg/L	17.50 NTU	-7.8 mV	24.91 ft	220.00 ml/min

## Samples

Sample ID:	Description:
MCD-B-123D	TDS, Radium, Metals, Inorganics, Alkalinity



# Low-Flow Test Report:

Test Date / Time: 4/10/2023 2:35:59 PM

Project: McDonough Delineation Drilling 2023 (5)

Operator Name: C. Tidwell

<b>Location Name: B-125D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 135 ft</b> <b>Total Depth: 145 ft</b> <b>Initial Depth to Water: 21.39 ft</b>	<b>Pump Type: QED</b> <b>Tubing Type: LDPE</b> <b>Pump Intake From TOC: 140 ft</b> <b>Estimated Total Volume Pumped: 7256.667 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 2.11 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 966105</b>
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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 %	+/- 0.3	+/- 10	+/- 10	+/- 0.3	
4/10/2023 2:35 PM	00:00	5.95 pH	22.93 °C	1,061.1 µS/cm	7.47 mg/L	24.30 NTU	47.6 mV	21.39 ft	200.00 ml/min
4/10/2023 2:40 PM	05:00	6.02 pH	22.93 °C	1,059.2 µS/cm	6.01 mg/L	20.90 NTU	44.7 mV	22.65 ft	200.00 ml/min
4/10/2023 2:45 PM	10:00	5.97 pH	23.52 °C	1,078.9 µS/cm	4.57 mg/L	220.00 NTU	48.1 mV	23.01 ft	200.00 ml/min
4/10/2023 2:50 PM	15:00	6.08 pH	20.71 °C	1,089.4 µS/cm	3.70 mg/L	211.00 NTU	25.6 mV	23.01 ft	200.00 ml/min
4/10/2023 2:55 PM	20:00	5.99 pH	20.66 °C	1,084.5 µS/cm	1.67 mg/L	20.60 NTU	33.7 mV	23.33 ft	200.00 ml/min
4/10/2023 3:00 PM	25:00	5.99 pH	20.82 °C	1,084.7 µS/cm	0.83 mg/L	13.80 NTU	35.2 mV	23.41 ft	200.00 ml/min
4/10/2023 3:06 PM	30:54	5.98 pH	20.78 °C	1,081.8 µS/cm	0.70 mg/L	10.20 NTU	36.6 mV	23.48 ft	200.00 ml/min
4/10/2023 3:11 PM	35:54	5.97 pH	20.50 °C	1,086.2 µS/cm	0.69 mg/L	4.62 NTU	37.8 mV	23.50 ft	200.00 ml/min
4/10/2023 3:12 PM	36:17	5.98 pH	20.51 °C	1,084.3 µS/cm	0.67 mg/L	4.62 NTU	36.5 mV	23.50 ft	200.00 ml/min

## Samples

Sample ID:	Description:
B125D	

**APPENDIX A**

# Instrument Calibration Forms, January-February 2023

Project Plant McDonough  
 Field Staff M. MANN

Instrument Calibration  
 Date: 02/01/23 02/02/23 02/03/23 02/06/23  
 Time: 830 805 815 815

Parameter	Units	Standard	AquaTROLL SN <u>884187</u>	AquaTROLL SN <u>884187</u>	AquaTROLL SN <u>884187</u>	AquaTROLL SN <u>851413</u>
DO	% saturation	100	106.29	99.84	101.51	107.43
Conductivity	us/cm	4490	4072.7	4839.7	4475.6	4473.4
pH	S.U.	4.00	3.96	3.98	4.00	3.90
pH	S.U.	7.00	7.02	6.99	7.05	6.98
pH	S.U.	10.00	10.08	9.97	10.15	10.13
ORP	mV	228.00	231.7	238.0	232.7	256.4

Turbidity	Units	Standard	Hach SN <u>22090000089</u>	Hach SN <u>22090000089</u>	Hach SN <u>22090000089</u>	Hach SN <u>22090000089</u>
	20 NTU	20	20.2	20.2	21.0	18.2
100 NTU	100	100	99.8	102	99.7	
800 NTU	800	800	832	799	800	806
	10	10	10.1	9.81	10.4	9.10

Date: 02/06/23 02/07/23 02/08/23 02/09/23  
 Time: 1330 0800 0810 0400

Parameter	Units	Standard	AquaTROLL SN <del>_____</del>	AquaTROLL SN <u>851413</u>	AquaTROLL SN <u>851413</u>	AquaTROLL SN <u>851413</u>
DO	% saturation	100		99.09	101.16	101.53
Conductivity	us/cm	4490		4452.8	4440.5	4597.1
pH	S.U.	4.00		3.99	4.03	4.03
pH	S.U.	7.00		7.07	7.03	7.05
pH	S.U.	10.00		10.03	10.12	10.08
ORP	mV	228.00		226.3	218.8	221.2

Turbidity	Units	Standard	Hach SN <u>220900000239</u>	Hach SN <u>220900000239</u>	Hach SN <u>220900000239</u>	Hach SN <u>220900000239</u>
	NTU	20	19.7	20.5	19.6	20.1
NTU	100	94.4	102	98.3	100	
NTU	800	787	822	789	808	
	10	10	9.56	9.56	9.80	9.63

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

Project Plant McDonough

# Calibration Report

Instrument Aqua TROLL 400  
Serial Number 884187  
Created 1/31/2023

**Sensor RDO**  
Serial Number 878532  
Last Calibrated 1/31/2023

### Calibration Details

Slope 1.119225  
Offset 0.00 mg/L

### Calibration point 100%

Concentration 8.34 mg/L  
Temperature 17.67 °C  
Barometric Pressure 992.78 mbar

**Sensor Conductivity**  
Serial Number 884187  
Last Calibrated 1/31/2023

### Calibration Details

Cell Constant 0.839  
Reference Temperature 20.00 °C  
TDS Conversion Factor (ppm) 0.65

**Sensor Level**  
Serial Number 883844  
Last Calibrated Factory Defaults

**Sensor pH/ORP**  
Serial Number 21637  
Last Calibrated 1/31/2023

### Calibration Details

Total Calibration Points 3

### Calibration Point 1

pH of Buffer 4.00 pH  
pH mV 150.1 mV  
Temperature 17.68 °C

### Calibration Point 2

pH of Buffer 7.04 pH  
pH mV -18.6 mV  
Temperature 16.92 °C

*Calibration Point 3*

---

pH of Buffer      10.11 pH  
pH mV            -188.1 mV  
Temperature      16.61 °C

*Slope and Offset 1*

---

Slope      -55.5 mV/pH  
Offset      -16.4 mV

*Slope and Offset 2*

---

Slope      -55.22 mV/pH  
Offset      -16.4 mV

*ORP*

---

ORP Solution      ORP Standard  
Offset              10.8 mV  
Temperature      16.66 °C

# Calibration Report

Instrument Aqua TROLL 400  
Serial Number 843593  
Created 2/2/2023

Sensor	RDO
Serial Number	849169
Last Calibrated	2/2/2023

### Calibration Details

Slope 1.119936  
Offset 0.00 mg/L

### Calibration point 100%

Concentration 10.13 mg/L  
Temperature 9.01 °C  
Barometric Pressure 994.76 mbar

Sensor	Conductivity
Serial Number	843593
Last Calibrated	2/2/2023

### Calibration Details

Cell Constant 0.896  
Reference Temperature 20.00 °C  
TDS Conversion Factor (ppm) 0.65

Sensor	Level
Serial Number	844244
Last Calibrated	Factory Defaults

Sensor	pH/ORP
Serial Number	21484
Last Calibrated	2/2/2023

### Calibration Details

Total Calibration Points 3

### Calibration Point 1

pH of Buffer 4.00 pH  
pH mV 138.2 mV  
Temperature 9.68 °C

### Calibration Point 2

pH of Buffer 7.06 pH  
pH mV -26.3 mV  
Temperature 9.84 °C

*Calibration Point 3*

---

pH of Buffer      10.14 pH  
pH mV            -197.8 mV  
Temperature      10.31 °C

*Slope and Offset 1*

---

Slope      -53.73 mV/pH  
Offset      -23.0 mV

*Slope and Offset 2*

---

Slope      -55.7 mV/pH  
Offset      -22.9 mV

*ORP*

---

ORP Solution      ORP Standard  
Offset              6.1 mV  
Temperature      10.22 °C

# Calibration Report

Instrument Aqua TROLL 400  
Serial Number 843593  
Created 2/6/2023

**Sensor RDO**  
Serial Number 849169  
Last Calibrated 2/6/2023

### Calibration Details

Slope 1.085564  
Offset 0.00 mg/L

### Calibration point 100%

Concentration 10.51 mg/L  
Temperature 8.28 °C  
Barometric Pressure 995.96 mbar

**Sensor Conductivity**  
Serial Number 843593  
Last Calibrated 2/6/2023

### Calibration Details

Cell Constant 1.236  
Reference Temperature 20.00 °C  
TDS Conversion Factor (ppm) 0.65

**Sensor Level**  
Serial Number 844244  
Last Calibrated Factory Defaults

**Sensor pH/ORP**  
Serial Number 21484  
Last Calibrated 2/6/2023

### Calibration Details

Total Calibration Points 3

### Calibration Point 1

pH of Buffer 4.00 pH  
pH mV 137.5 mV  
Temperature 8.47 °C

### Calibration Point 2

pH of Buffer 7.06 pH  
pH mV -26.1 mV  
Temperature 8.52 °C



*Calibration Point 3*

---

pH of Buffer      10.14 pH  
pH mV            -195.4 mV  
Temperature      8.09 °C

*Slope and Offset 1*

---

Slope      -53.47 mV/pH  
Offset      -22.9 mV

*Slope and Offset 2*

---

Slope      -54.98 mV/pH  
Offset      -22.8 mV

*ORP*

---

ORP Solution      Zobell's  
Offset              22.2 mV  
Temperature      8.30 °C

# Calibration Report

Instrument Aqua TROLL 400  
Serial Number 883553  
Created 2/1/2023

**Sensor RDO**  
Serial Number 878536  
Last Calibrated 2/1/2023

### Calibration Details

Slope 1.096669  
Offset 0.00 mg/L

### Calibration point 100%

Concentration 9.56 mg/L  
Temperature 12.49 °C  
Barometric Pressure 997.41 mbar

**Sensor Conductivity**  
Serial Number 883553  
Last Calibrated 2/1/2023

### Calibration Details

Cell Constant 0.911  
Reference Temperature 20.00 °C  
TDS Conversion Factor (ppm) 0.65

**Sensor Level**  
Serial Number 879607  
Last Calibrated Factory Defaults

**Sensor pH/ORP**  
Serial Number 21638  
Last Calibrated 2/1/2023

### Calibration Details

Total Calibration Points 3

### Calibration Point 1

pH of Buffer 4.00 pH  
pH mV 154.1 mV  
Temperature 13.26 °C

### Calibration Point 2

pH of Buffer 7.04 pH  
pH mV -9.9 mV  
Temperature 13.67 °C

*Calibration Point 3*

---

pH of Buffer      10.11 pH  
pH mV            -177.7 mV  
Temperature      13.86 °C

*Slope and Offset 1*

---

Slope      -53.96 mV/pH  
Offset      -7.7 mV

*Slope and Offset 2*

---

Slope      -54.66 mV/pH  
Offset      -7.7 mV

*ORP*

---

ORP Solution      Zobell's  
Offset              12.0 mV  
Temperature      14.02 °C

# Calibration Report

Instrument Aqua TROLL 400  
Serial Number 883553  
Created 2/2/2023

**Sensor RDO**  
Serial Number 878536  
Last Calibrated 2/2/2023

### Calibration Details

Slope 1.109211  
Offset 0.00 mg/L

### Calibration point 100%

Concentration 8.69 mg/L  
Temperature 15.64 °C  
Barometric Pressure 995.97 mbar

**Sensor Conductivity**  
Serial Number 883553  
Last Calibrated 2/2/2023

### Calibration Details

Cell Constant 1.07  
Reference Temperature 20.00 °C  
TDS Conversion Factor (ppm) 0.65

**Sensor Level**  
Serial Number 879607  
Last Calibrated Factory Defaults

**Sensor pH/ORP**  
Serial Number 21638  
Last Calibrated 2/2/2023

### Calibration Details

Total Calibration Points 3

### Calibration Point 1

pH of Buffer 4.00 pH  
pH mV 155.7 mV  
Temperature 15.43 °C

### Calibration Point 2

pH of Buffer 7.04 pH  
pH mV -10.8 mV  
Temperature 15.59 °C

*Calibration Point 3*

---

pH of Buffer      10.11 pH  
pH mV            -176.4 mV  
Temperature      15.58 °C

*Slope and Offset 1*

---

Slope      -54.78 mV/pH  
Offset      -8.6 mV

*Slope and Offset 2*

---

Slope      -53.95 mV/pH  
Offset      -8.6 mV

*ORP*

---

ORP Solution      Zobell's  
Offset              13.6 mV  
Temperature      15.44 °C

# Calibration Report

Instrument Aqua TROLL 400  
Serial Number 883553  
Created 2/3/2023

**Sensor RDO**  
Serial Number 878536  
Last Calibrated 2/3/2023

### Calibration Details

Slope 1.115391  
Offset 0.00 mg/L

### Calibration point 100%

Concentration 8.79 mg/L  
Temperature 14.76 °C  
Barometric Pressure 996.77 mbar

**Sensor Conductivity**  
Serial Number 883553  
Last Calibrated 2/3/2023

### Calibration Details

Cell Constant 1.065  
Reference Temperature 20.00 °C  
TDS Conversion Factor (ppm) 0.65

**Sensor Level**  
Serial Number 879607  
Last Calibrated Factory Defaults

**Sensor pH/ORP**  
Serial Number 21638  
Last Calibrated 2/3/2023

### Calibration Details

Total Calibration Points 3

### Calibration Point 1

pH of Buffer 4.00 pH  
pH mV 154.6 mV  
Temperature 14.43 °C

### Calibration Point 2

pH of Buffer 7.04 pH  
pH mV -16.1 mV  
Temperature 12.93 °C

*Calibration Point 3*

---

pH of Buffer      10.11 pH  
pH mV            -178.2 mV  
Temperature      13.31 °C

*Slope and Offset 1*

---

Slope      -56.16 mV/pH  
Offset      -13.9 mV

*Slope and Offset 2*

---

Slope      -52.79 mV/pH  
Offset      -14.0 mV

*ORP*

---

ORP Solution      Zobell's  
Offset              14.3 mV  
Temperature      12.19 °C

# Calibration Report

Instrument Aqua TROLL 400  
Serial Number 883553  
Created 2/6/2023

**Sensor RDO**  
Serial Number 878536  
Last Calibrated 2/6/2023

### Calibration Details

Slope 1.094213  
Offset 0.00 mg/L

### Calibration point 100%

Concentration 10.10 mg/L  
Temperature 9.43 °C  
Barometric Pressure 996.38 mbar

**Sensor Conductivity**  
Serial Number 883553  
Last Calibrated 2/6/2023

### Calibration Details

Cell Constant 1.068  
Reference Temperature 20.00 °C  
TDS Conversion Factor (ppm) 0.65

**Sensor Level**  
Serial Number 879607  
Last Calibrated Factory Defaults

**Sensor pH/ORP**  
Serial Number 21638  
Last Calibrated 2/6/2023

### Calibration Details

Total Calibration Points 3

### Calibration Point 1

pH of Buffer 4.00 pH  
pH mV 151.6 mV  
Temperature 9.52 °C

### Calibration Point 2

pH of Buffer 7.06 pH  
pH mV -11.2 mV  
Temperature 9.47 °C



*Calibration Point 3*

---

pH of Buffer      10.14 pH  
pH mV            -178.1 mV  
Temperature      9.61 °C

*Slope and Offset 1*

---

Slope      -53.2 mV/pH  
Offset      -8.0 mV

*Slope and Offset 2*

---

Slope      -54.19 mV/pH  
Offset      -8.0 mV

*ORP*

---

ORP Solution      Zobell's  
Offset              12.2 mV  
Temperature      9.36 °C

# Calibration Report

Instrument Aqua TROLL 400  
Serial Number 883553  
Created 2/7/2023

**Sensor RDO**  
Serial Number 878536  
Last Calibrated 2/7/2023

### Calibration Details

Slope 1.106362  
Offset 0.00 mg/L

### Calibration point 100%

Concentration 9.49 mg/L  
Temperature 11.77 °C  
Barometric Pressure 999.60 mbar

**Sensor Conductivity**  
Serial Number 883553  
Last Calibrated 2/7/2023

### Calibration Details

Cell Constant 1.06  
Reference Temperature 20.00 °C  
TDS Conversion Factor (ppm) 0.65

**Sensor Level**  
Serial Number 879607  
Last Calibrated Factory Defaults

**Sensor pH/ORP**  
Serial Number 21638  
Last Calibrated 2/7/2023

### Calibration Details

Total Calibration Points 3

### Calibration Point 1

pH of Buffer 4.00 pH  
pH mV 153.1 mV  
Temperature 11.66 °C

### Calibration Point 2

pH of Buffer 7.06 pH  
pH mV -10.6 mV  
Temperature 11.98 °C

*Calibration Point 3*

---

pH of Buffer      10.14 pH  
pH mV            -176.7 mV  
Temperature      12.26 °C

*Slope and Offset 1*

---

Slope      -53.51 mV/pH  
Offset      -7.4 mV

*Slope and Offset 2*

---

Slope      -53.93 mV/pH  
Offset      -7.4 mV

*ORP*

---

ORP Solution      Zobell's  
Offset              14.5 mV  
Temperature      12.23 °C

# Calibration Report

Instrument Aqua TROLL 400  
Serial Number 884189  
Created 1/31/2023

**Sensor RDO**  
Serial Number 878531  
Last Calibrated 1/31/2023

### Calibration Details

Slope 1.090011  
Offset 0.00 mg/L

### Calibration point 100%

Concentration 8.73 mg/L  
Temperature 16.83 °C  
Barometric Pressure 994.53 mbar

**Sensor Conductivity**  
Serial Number 884189  
Last Calibrated 1/31/2023

### Calibration Details

Cell Constant 0.099  
Reference Temperature 25.00 °C  
TDS Conversion Factor (ppm) 0.65

**Sensor Level**  
Serial Number 879249  
Last Calibrated Factory Defaults

**Sensor pH/ORP**  
Serial Number 21633  
Last Calibrated 1/31/2023

### Calibration Details

Total Calibration Points 3

### Calibration Point 1

pH of Buffer 4.00 pH  
pH mV 160.4 mV  
Temperature 18.30 °C

### Calibration Point 2

pH of Buffer 7.02 pH  
pH mV -8.6 mV  
Temperature 18.39 °C

*Calibration Point 3*

---

pH of Buffer      10.05 pH  
pH mV            -177.6 mV  
Temperature      18.48 °C

*Slope and Offset 1*

---

Slope      -55.94 mV/pH  
Offset      -7.4 mV

*Slope and Offset 2*

---

Slope      -55.8 mV/pH  
Offset      -7.4 mV

*ORP*

---

ORP Solution      Zobell's  
Offset              7.1 mV  
Temperature      18.36 °C

# Calibration Report

Instrument Aqua TROLL 400  
Serial Number 884189  
Created 2/1/2023

Sensor	RDO
Serial Number	878531
Last Calibrated	2/1/2023

### Calibration Details

Slope 1.076613  
Offset 0.00 mg/L

### Calibration point 100%

Concentration 8.91 mg/L  
Temperature 16.47 °C  
Barometric Pressure 994.90 mbar

Sensor	Conductivity
Serial Number	884189
Last Calibrated	2/1/2023

### Calibration Details

Cell Constant 0.099  
Reference Temperature 25.00 °C  
TDS Conversion Factor (ppm) 0.65

Sensor	Level
Serial Number	879249
Last Calibrated	Factory Defaults

Sensor	pH/ORP
Serial Number	21633
Last Calibrated	2/1/2023

### Calibration Details

Total Calibration Points 3

### Calibration Point 1

pH of Buffer 4.00 pH  
pH mV 159.4 mV  
Temperature 17.74 °C

### Calibration Point 2

pH of Buffer 7.02 pH  
pH mV -9.5 mV  
Temperature 18.11 °C

*Calibration Point 3*

---

pH of Buffer      10.05 pH  
pH mV            -178.6 mV  
Temperature      18.39 °C

*Slope and Offset 1*

---

Slope      -55.92 mV/pH  
Offset      -8.4 mV

*Slope and Offset 2*

---

Slope      -55.79 mV/pH  
Offset      -8.4 mV

*ORP*

---

ORP Solution      Zobell's  
Offset              8.2 mV  
Temperature      18.36 °C

# Calibration Report

Instrument Aqua TROLL 400  
Serial Number 884189  
Created 2/3/2023

**Sensor RDO**  
Serial Number 878531  
Last Calibrated 2/3/2023

### Calibration Details

Slope 1.071187  
Offset 0.00 mg/L

### Calibration point 100%

Concentration 8.73 mg/L  
Temperature 17.88 °C  
Barometric Pressure 999.00 mbar

**Sensor Conductivity**  
Serial Number 884189  
Last Calibrated 2/3/2023

### Calibration Details

Cell Constant 0.994  
Reference Temperature 25.00 °C  
TDS Conversion Factor (ppm) 0.65

**Sensor Level**  
Serial Number 879249  
Last Calibrated Factory Defaults

**Sensor pH/ORP**  
Serial Number 21633  
Last Calibrated 2/3/2023

### Calibration Details

Total Calibration Points 3

### Calibration Point 1

pH of Buffer 4.00 pH  
pH mV 156.7 mV  
Temperature 14.04 °C

### Calibration Point 2

pH of Buffer 7.04 pH  
pH mV -8.3 mV  
Temperature 13.02 °C



*Calibration Point 3*

---

pH of Buffer      10.14 pH  
pH mV            -175.9 mV  
Temperature      12.45 °C

*Slope and Offset 1*

---

Slope      -54.29 mV/pH  
Offset      -6.1 mV

*Slope and Offset 2*

---

Slope      -54.07 mV/pH  
Offset      -6.1 mV

*ORP*

---

ORP Solution      Zobell's  
Offset              7.0 mV  
Temperature      12.25 °C

# Calibration Report

Instrument Aqua TROLL 400  
Serial Number 884189  
Created 2/6/2023

**Sensor RDO**  
Serial Number 878531  
Last Calibrated 2/6/2023

### Calibration Details

Slope 1.078399  
Offset 0.00 mg/L

### Calibration point 100%

Concentration 9.85 mg/L  
Temperature 11.85 °C  
Barometric Pressure 995.88 mbar

**Sensor Conductivity**  
Serial Number 884189  
Last Calibrated 2/6/2023

### Calibration Details

Cell Constant 0.974  
Reference Temperature 25.00 °C  
TDS Conversion Factor (ppm) 0.65

**Sensor Level**  
Serial Number 879249  
Last Calibrated Factory Defaults

**Sensor pH/ORP**  
Serial Number 21633  
Last Calibrated 2/6/2023

### Calibration Details

Total Calibration Points 3

### Calibration Point 1

pH of Buffer 4.00 pH  
pH mV 152.5 mV  
Temperature 10.55 °C

### Calibration Point 2

pH of Buffer 7.06 pH  
pH mV -8.3 mV  
Temperature 10.60 °C

*Calibration Point 3*

---

pH of Buffer      10.14 pH  
pH mV            -172.8 mV  
Temperature      10.48 °C

*Slope and Offset 1*

---

Slope      -52.58 mV/pH  
Offset      -5.2 mV

*Slope and Offset 2*

---

Slope      -53.38 mV/pH  
Offset      -5.1 mV

*ORP*

---

ORP Solution      Zobell's  
Offset              7.3 mV  
Temperature      10.46 °C

Date: 1/31/23  
 Time: 0530  
 Prepared By: Daniel Howard  
 Checked By: \_\_\_\_\_

~~Wood~~ WSP  
 Project No. \_\_\_\_\_  
 Plant McDonough

Pine Sonde ID: 883536  
 Pine Handset ID: 883536  
 Battery Voltage %: 82

CALIBRATION PRIOR TO SAMPLING

DISSOLVED OXYGEN (DO)		VALUE
Was DO membrane changed?	Yes _____ No <input checked="" type="checkbox"/>	Date: _____ Time: _____
Current Air Temperature °C (meter reading):		
Current Barometric Pressure (from Weather Channel or NOAA.gov, which is corrected to sea level):		<u>20.26</u>
Elevation Corrected Barometric Pressure to enter into YSI DO calibration:	Ex.: 30.02 in. Hg x 25.4 = mm Hg; subtract 2.54 mm Hg for every 100 ft. above sea level: 565/100 x 2.54 = 14.4 mm Hg	<u>mbar</u>
Theoretical DO (mg/L) from DO table based on current temperature and elevation corrected pressure:		<u>981.98</u>
DO concentration before Calibration (mg/L):	Depending on meter version, this may not be available.	
DO concentration after Calibration (mg/L):		<u>8.92</u>
% Recovery (actual/theory x 100)	Range is 90 to 110% Recovery	<u>8.20</u>
DO Charge (DO ch):	Acceptable Range is 25 to 75	<u>100.82</u>
DO Gain (should be between -0.7 and 1.5):	Exit Calibration menu and go to Advanced/Cal Constants	<u>1.068719</u>

Note:

CONDUCTIVITY [Note: Calibrates before pH to avoid carry-over from pH standards (i.e. pH buffers are conductive)]		VALUE
Calibration standard used (mS/cm)	<u>Lot 21470032 4/23</u>	
Temperature (°C)		<u>4.490</u>
Reading before Calibration (mS/cm)		<u>19.85</u>
Reading AFTER Calibration (mS/cm)		<u>5.7719</u>
Conductivity Cell Constant (unitless):		<u>4.490</u>
		<u>1.009</u>

5/100

Note: Be sure conductivity cell is submerged and free of bubbles (gently tap sonde on table)

pH		VALUE
pH 7.0 value before calibration:	<u>Lot 22140169 8/23</u>	<u>7.23</u>
pH 7.0 value after calibration:		<u>7.02</u>
pH 7.0 mV (range is -50 to +50 mV):	<u>19.50°C</u>	<u>-20.8</u>
pH 10 value before calibration:	<u>Lot 22110130 8/23</u>	<u>10.15</u>
pH 10 value after calibration:		<u>10.05</u>
pH 10 mV (range is -130 to -230 mV):	<u>18.98°C</u>	<u>791.0</u>
pH 4.0 value before calibration:	<u>Lot 21470032 4/23</u>	<u>4.05</u>
pH 4.0 value after calibration:		<u>4.00</u>
pH 4.0 mV (range is 130 to 230 mV):	<u>19.90°C</u>	<u>153.0</u>

7.11

Note: Span between pH 4 and 7, and 7 and 10 should be between 165 to 180 mV

OXIDATION/REDUCTION POTENTIAL (ORP)		VALUE
Calibration Temperature (°C):	<u>Lot 21140143 4/23</u>	
Theoretical Calibration standard (mV)	$0.231 + 0.0013(25 - T) \times 1000 = \text{mV}$ (T is Temperature °C)	<u>18.88</u>
Reading before calibration (mV):		<u>237.1</u>
Reading after calibration (mV):	<u>STD 228</u>	<u>249.1</u>
		<u>237.1</u>

Note: mV theory will change with temperature. so calculate based on your current temp.

TURBIDITY Note: Lens wiper should be parked 180 degrees from the optics.			
<u>20</u> NTU Turbidity Standard	<u>Lot A2231 12/23</u>	Before Cal:	After Cal: <u>19.8</u>
<u>100</u> NTU Turbidity Standard	<u>Lot A2239 12/23</u>	Before Cal:	After Cal: <u>99.7</u>
<u>800</u> NTU Turbidity Standard	<u>Lot A2231 12/23</u>	Before Cal:	After Cal: <u>796</u>
<u>10</u> NTU Turbidity Check STD	<u>Lot A2264 1/24</u>	Before Cal:	After Cal: <u>10.0</u>
____ NTU Turbidity Check STD		Before Cal:	After Cal:

CALIBRATION SUCCESSFUL?

Hach SN: 22090D000345

Date: 2/1/23  
 Time: 0530

Wood: WSP  
 Project No. \_\_\_\_\_

Pine Sonde ID: 883536  
 Pine Handset ID: \_\_\_\_\_  
 Battery Voltage %: 99

Prepared By: Daniel Howard  
 Checked By: \_\_\_\_\_

Plant Mon McDonough

CALIBRATION PRIOR TO SAMPLING

DISSOLVED OXYGEN (DO)		VALUE
Was DO membrane changed?	Yes _____ No <input checked="" type="checkbox"/>	Date: _____ Time: _____
Current Air Temperature °C (meter reading):		20.09
Current Barometric Pressure (from Weather Channel or NOAA.gov, which is corrected to sea level):		
Elevation Corrected Barometric Pressure to enter into YSI DO calibration:	Ex.: 30.02 in. Hg x 25.4 = mm Hg; subtract 2.54 mm Hg for every 100 ft. above sea level: 565/100 x 2.54 = 14.4 mm Hg	mbar 982.01
Theoretical DO (mg/L) from DO table based on current temperature and elevation corrected pressure:		
DO concentration before Calibration (mg/L):	Depending on meter version, this may not be available.	8.84
DO concentration after Calibration (mg/L):		8.27
% Recovery (actual/theory x 100)	Range is 90 to 110% Recovery	100.61
DO Charge (DO ch):	Acceptable Range is 25 to 75	
DO Gain (should be between -0.7 and 1.5):	Exit Calibration menu and go to Advanced/Cal Constants	1.06384 <i>slope</i>

Note:

CONDUCTIVITY [Note: Calibrate before pH to avoid carry-over from pH standards (i.e. pH buffers are conductive)]		
Calibration standard used (mS/cm)	Lot 21470032 4/23	4.490
Temperature (°C)		19.88
Reading before Calibration (mS/cm)		4.4626
Reading AFTER Calibration (mS/cm)		4.490
Conductivity Cell Constant (unitless):		1.015

Note: Be sure conductivity cell is submerged and free of bubbles (gently tap sonde on table)

pH			
pH 7.0 value before calibration:	Lot 22140169 8/23		7.11
pH 7.0 value after calibration:		19.95°C	7.02
pH 7.0 mV (range is -50 to +50 mV):			25.6
pH 10 value before calibration:	Lot 22110130 8/23		10.09
pH 10 value after calibration:		19.60°C	10.05
pH 10 mV (range is -130 to -230 mV):			194.7
pH 4.0 value before calibration:	Lot 21470032 4/23		4.08
pH 4.0 value after calibration:		19.96°C	4.00
pH 4.0 mV (range is 130 to 230 mV):			148.8

Note: Span between pH 4 and 7, and 7 and 10 should be between 165 to 180 mV

OXIDATION/REDUCTION POTENTIAL (ORP)		
Calibration Temperature (°C):	Lot 21146143 4/23	19.14
Theoretical Calibration standard (mV)	$0.231 + 0.0013(25 - T) \times 1000 = \text{mV}$ (T is Temperature °C)	236.6
Reading before calibration (mV):	STD 228	233.4
Reading after calibration (mV):		236.6

Note: mV theory will change with temperature, so calculate based on your current temp.

TURBIDITY Note: Lens wiper should be parked 180 degrees from the optics.				
20 NTU Turbidity Standard	Lot A2231 12/23	Before Cal:	After Cal:	19.8
100 NTU Turbidity Standard	Lot A2239 12/23	Before Cal:	After Cal:	99.5
800 NTU Turbidity Standard	Lot A2231 12/23	Before Cal:	After Cal:	802
10 NTU Turbidity Check STD	Lot A2264 11/24	Before Cal:	After Cal:	10.2
_____ NTU Turbidity Check STD		Before Cal:	After Cal:	

CALIBRATION SUCCESSFUL?

Hach SN: 22090D000345

Date: 2/2/23

Time: 0535

Prepared By: Daniel Howard

Checked By: \_\_\_\_\_

Wood WSP

Project No.

Plant McDonough

Pine Sonde ID: 883536

Pine Handset ID: \_\_\_\_\_

Battery Voltage %: 88

CALIBRATION PRIOR TO SAMPLING

DISSOLVED OXYGEN (DO)		VALUE
Was DO membrane changed?	Yes _____ No <input checked="" type="checkbox"/>	Date: _____ Time: _____
Current Air Temperature °C (meter reading):		20.03
Current Barometric Pressure (from Weather Channel or NOAA.gov, which is corrected to sea level):		
Elevation Corrected Barometric Pressure to enter into YSI DO calibration:	Ex.: 30.02 in. Hg x 25.4 = mm Hg; subtract 2.54 mm Hg for every 100 ft. above sea level: 565/100 x 2.54 = 14.4 mm Hg	m bar 982.68
Theoretical DO (mg/L) from DO table based on current temperature and elevation corrected pressure:		
DO concentration before Calibration (mg/L):	Depending on meter version, this may not be available.	8.83
DO concentration after Calibration (mg/L):		8.27
% Recovery (actual/theory x 100)	Range is 90 to 110% Recovery	100.02
DO Charge (DO ch):	Acceptable Range is 25 to 75	
DO Gain (should be between -0.7 and 1.5):	Exit Calibration menu and go to Advanced/Cal Constants	1.06462 slope

Note:

CONDUCTIVITY [Note: Calibrate before pH to avoid carry-over from pH standards (i.e. pH buffers are conductive)]	
Calibration standard used (mS/cm)	Lot 21470032 4/23
Temperature (°C)	4.490
Reading before Calibration (mS/cm)	19.96
Reading AFTER Calibration (mS/cm)	4.4194
Conductivity Cell Constant (unitless):	4.490
	1.017

Note: Be sure conductivity cell is submerged and free of bubbles (gently tap sonde on table)

pH

pH 7.0 value before calibration:	Lot 22140169 8/23	7.02
pH 7.0 value after calibration:		7.02
pH 7.0 mV (range is -50 to +50 mV):	19.90°C	25.7
pH 10 value before calibration:	Lot 22110130 8/23	10.06
pH 10 value after calibration:	19.77°C	10.05
pH 10 mV (range is -130 to -230 mV):		194.7
pH 4.0 value before calibration:	Lot 21470032 4/23	4.01
pH 4.0 value after calibration:	19.99°C	4.00
pH 4.0 mV (range is 130 to 230 mV):		148.2

Note: Span between pH 4 and 7, and 7 and 10 should be between 165 to 180 mV

OXIDATION/REDUCTION POTENTIAL (ORP)

Calibration Temperature (°C):	Lot 21140143 4/23	19.68
Theoretical Calibration standard (mV)	$0.231 + 0.0013(25 - T) \times 1000 = \text{mV}$ (T is Temperature °C)	236.0
Reading before calibration (mV):	STD 228	236.1
Reading after calibration (mV):		236.0

Note: mV theory will change with temperature, so calculate based on your current temp.

TURBIDITY Note: Lens wiper should be parked 180 degrees from the optics.

20 NTU Turbidity Standard Lot A2231 12/23	Before Cal:	After Cal:	20.1
100 NTU Turbidity Standard Lot A2239 12/23	Before Cal:	After Cal:	100
800 NTU Turbidity Standard Lot A2231 12/23	Before Cal:	After Cal:	800
10 NTU Turbidity Check STD Lot A2264 1/24	Before Cal:	After Cal:	10.1
_____ NTU Turbidity Check STD	Before Cal:	After Cal:	
CALIBRATION SUCCESSFUL?			

Hach SN: 22090D000345

Date: 2/3/23  
 Time: 0530  
 Prepared By: Daniel Howard  
 Checked By: \_\_\_\_\_

Wood: WSP  
 Project No. \_\_\_\_\_  
 Plant McDonough

Pine Sonde ID: 883536  
 Pine Handset ID: \_\_\_\_\_  
 Battery Voltage %: 79

CALIBRATION PRIOR TO SAMPLING

DISSOLVED OXYGEN (DO)		VALUE
Was DO membrane changed?	Yes _____ No <input checked="" type="checkbox"/>	Date: _____ Time: _____
Current Air Temperature °C (meter reading):		19.76
Current Barometric Pressure (from Weather Channel or NOAA.gov, which is corrected to sea level):		
Elevation Corrected Barometric Pressure to enter into YSI DO calibration:	Ex.: 30.02 in. Hg x 25.4 = mm Hg; subtract 2.54 mm Hg for every 100 ft. above sea level: 565/100 x 2.54 = 14.4 mm Hg	mbar
Theoretical DO (mg/L) from DO table based on current temperature and elevation corrected pressure:		9.8181
DO concentration before Calibration (mg/L):	Depending on meter version, this may not be available.	8.84
DO concentration after Calibration (mg/L):		8.29
% Recovery (actual/theory x 100)	Range is 90 to 110% Recovery	99.85
DO Charge (DO ch):	Acceptable Range is 25 to 75	
DO Gain (should be between -0.7 and 1.5):	Exit Calibration menu and go to Advanced/Cal Constants	1.066381 slope

Note:

CONDUCTIVITY [Note: Calibrate before pH to avoid carry-over from pH standards (i.e. pH buffers are conductive)]	
Calibration standard used (mS/cm)	Lot 21470032 4/23
Temperature (°C)	
Reading before Calibration (mS/cm)	
Reading AFTER Calibration (mS/cm)	4.455
Conductivity Cell Constant (unitless):	

Note: Be sure conductivity cell is submerged and free of bubbles (gently tap sonde on table)

pH	
pH 7.0 value before calibration:	Lot 22140169 8/23
pH 7.0 value after calibration:	
pH 7.0 mV (range is -50 to +50 mV):	19.10°C
pH 10 value before calibration:	
pH 10 value after calibration:	Lot 22110130 8/23
pH 10 mV (range is -130 to -230 mV):	19.01°C
pH 4.0 value before calibration:	Lot 21470032 4/23
pH 4.0 value after calibration:	
pH 4.0 mV (range is 130 to 230 mV):	19.12°C

Note: Span between pH 4 and 7, and 7 and 10 should be between 165 to 180 mV

OXIDATION/REDUCTION POTENTIAL (ORP)	
Calibration Temperature (°C):	Lot 21170143 4/23
Theoretical Calibration standard (mV)	$0.231 + 0.0013(25 - T) \times 1000 = \text{mV}$ (T is Temperature °C)
Reading before calibration (mV):	5TD 228
Reading after calibration (mV):	

Note: mV theory will change with temperature, so calculate based on your current temp.

TURBIDITY Note: Lens wiper should be parked 180 degrees from the optics.			
20 NTU Turbidity Standard	Lot A2231 12/23	Before Cal:	After Cal: 19.9
100 NTU Turbidity Standard	Lot A2239 12/23	Before Cal:	After Cal: 99.9
800 NTU Turbidity Standard	Lot A2231 12/23	Before Cal:	After Cal: 803
10 NTU Turbidity Check STD	Lot A2264 1/24	Before Cal:	After Cal: 10.2
_____ NTU Turbidity Check STD		Before Cal:	After Cal:
CALIBRATION SUCCESSFUL?			

Hach SN: 22090D000345

Date: 2/8/23  
 Time: 0535  
 Prepared By: Daniel Howard  
 Checked By: \_\_\_\_\_

Wood: WSP  
 Project No. \_\_\_\_\_  
 Plant McDonough

Pine Sonde ID: \_\_\_\_\_  
 Pine Handset ID: 883536  
 Battery Voltage %: 99

CALIBRATION PRIOR TO SAMPLING

DISSOLVED OXYGEN (DO)		VALUE
Was DO membrane changed?	Yes No <input checked="" type="checkbox"/>	Date: _____ Time: _____
Current Air Temperature °C (meter reading):		19.89
Current Barometric Pressure (from Weather Channel or NOAA.gov, which is corrected to sea level):		
Elevation Corrected Barometric Pressure to enter into YSI DO calibration:	Ex.: 30.02 in. Hg x 25.4 = mm Hg, subtract 2.54 mm Hg for every 100 ft. above sea level: 565/100 x 2.54 = 14.4 mm Hg	m bar
Theoretical DO (mg/L) from DO table based on current temperature and elevation corrected pressure:		982.02
DO concentration before Calibration (mg/L):	Depending on meter version, this may not be available.	8.25
DO concentration after Calibration (mg/L):		8.30
% Recovery (actual/theory x 100)	Range is 90 to 110% Recovery	100.25
DO Charge (DO ch):	Acceptable Range is 25 to 75	—
DO Gain (should be between -0.7 and 1.5):	Exit Calibration menu and go to Advanced/Cal Constants	1.063572 slope

Note:

CONDUCTIVITY [Note: Calibrate before pH to avoid carry-over from pH standards (i.e. pH buffers are conductive)]	
Calibration standard used (mS/cm)	Lot 21470032 4/23
Temperature (°C)	4.490
Reading before Calibration (mS/cm)	19.01
Reading AFTER Calibration (mS/cm)	4.4848
Conductivity Cell Constant (unitless):	4.490
	1.025

Note: Be sure conductivity cell is submerged and free of bubbles (gently tap sonde on table)

pH	
pH 7.0 value before calibration:	Lot 22140169 8/23
pH 7.0 value after calibration:	7.05
pH 7.0 mV (range is -50 to +50 mV):	19.44°C
pH 10 value before calibration:	-27.6
pH 10 value after calibration:	Lot 22110130 8/23
pH 10 mV (range is -130 to -230 mV):	19.12°C
pH 4.0 value before calibration:	-195.4
pH 4.0 value after calibration:	Lot 21470032 4/23
pH 4.0 mV (range is 130 to 230 mV):	19.0°C
	4.06
	4.00
	144.2

Note: Span between pH 4 and 7, and 7 and 10 should be between 165 to 180 mV

OXIDATION/REDUCTION POTENTIAL (ORP) 21140143	
Calibration Temperature (°C):	Lot 21470032 4/23
Theoretical Calibration standard (mV)	0.231 + 0.0013(25-T) x 1000 = mV (T is Temperature °C)
Reading before calibration (mV):	212.3
Reading after calibration (mV):	STD 228
	234.1
	232.7
	234.1

Note: mV theory will change with temperature, so calculate based on your current temp.

TURBIDITY Note: Lens wiper should be parked 180 degrees from the optics.			
20 NTU Turbidity Standard	Lot A2231 12/23	Before Cal:	After Cal: 20.0
100 NTU Turbidity Standard	Lot A2239 12/23	Before Cal:	After Cal: 101
800 NTU Turbidity Standard	Lot A2231 12/23	Before Cal:	After Cal: 802
10 NTU Turbidity Check STD	Lot A2264 1/24	Before Cal:	After Cal: 10.2
_____ NTU Turbidity Check STD		Before Cal:	After Cal:

CALIBRATION SUCCESSFUL?

Hach SN: 22090D000345



Date: 2/7/23

Time: 0535

Prepared By: Daniel Howard

Checked By: \_\_\_\_\_

Wood: WSP

Project No. \_\_\_\_\_

Plant McDonough

Pine Sonde ID: 883536

Pine Handset ID: \_\_\_\_\_

Battery Voltage %: 78

CALIBRATION PRIOR TO SAMPLING

DISSOLVED OXYGEN (DO)		VALUE
Was DO membrane changed?	Yes _____ No <input checked="" type="checkbox"/>	Date: _____ Time: _____
Current Air Temperature °C (meter reading):		18.70
Current Barometric Pressure (from Weather Channel or NOAA.gov, which is corrected to sea level):		
Elevation Corrected Barometric Pressure to enter into YSI DO calibration:	Ex.: 30.02 in. Hg x 25.4 = mm Hg; subtract 2.54 mm Hg for every 100 ft. above sea level: 565/100 x 2.54 = 14.4 mm Hg	m bar 984.98
Theoretical DO (mg/L) from DO table based on current temperature and elevation corrected pressure:		
DO concentration before Calibration (mg/L):	Depending on meter version, this may not be available.	9.05
DO concentration after Calibration (mg/L):		8.52
% Recovery (actual/theory x 100)	Range is 90 to 110% Recovery	99.7
DO Charge (DO ch):	Acceptable Range is 25 to 75	
DO Gain (should be between -0.7 and 1.5):	Exit Calibration menu and go to Advanced/Cal Constants	1.064145 slope

Note:

CONDUCTIVITY [Note: Calibrate before pH to avoid carry-over from pH standards (i.e. pH buffers are conductive)]	
Calibration standard used (mS/cm)	Lot 21470032 4/23
Temperature (°C)	4.490
Reading before Calibration (mS/cm)	19.48
Reading AFTER Calibration (mS/cm)	4.4374
Conductivity Cell Constant (unitless):	4.490
	1.036

Note: Be sure conductivity cell is submerged and free of bubbles (gently tap sonde on table)

pH	
pH 7.0 value before calibration:	Lot 22140169 8/23
pH 7.0 value after calibration:	7.03
pH 7.0 mV (range is -50 to +50 mV):	19.28°C
pH 10 value before calibration:	7.02
pH 10 value after calibration:	-28.3
pH 10 mV (range is -130 to -230 mV):	Lot 22110130 8/23
pH 4.0 value before calibration:	10.06
pH 4.0 value after calibration:	18.49°C
pH 4.0 mV (range is 130 to 230 mV):	10.05
	-196.1
	Lot 21470032 4/23
	4.00
	19.54°C
	4.00
	144.5

Note: Span between pH 4 and 7, and 7 and 10 should be between 165 to 180 mV

OXIDATION/REDUCTION POTENTIAL (ORP)	
Calibration Temperature (°C):	Lot 21140143 4/23
Theoretical Calibration standard (mV)	0.231+0.0013(25-T) x 1000 = mV (T is Temperature °C)
Reading before calibration (mV):	18.88
Reading after calibration (mV):	STD 228
	236.3
	237.1

Note: mV theory will change with temperature, so calculate based on your current temp.

TURBIDITY Note: Lens wiper should be parked 180 degrees from the optics.			
20 NTU Turbidity Standard	Lot A2231 12/23	Before Cal:	After Cal: 20.2
100 NTU Turbidity Standard	Lot A2239 12/23	Before Cal:	After Cal: 99.7
800 NTU Turbidity Standard	Lot A2231 12/23	Before Cal:	After Cal: 799
10 NTU Turbidity Check STD	Lot A2264 1/24	Before Cal:	After Cal: 10.0
_____ NTU Turbidity Check STD		Before Cal:	After Cal:

CALIBRATION SUCCESSFUL?

Hach SN: 22090D000345

Daily Calibration Log

Project Plant McDonough  
 Field Staff M. Mann

Instrument Calibration

		Date:	04/03/2023	04/04/2023
		Time:	1115	045
Parameter	Units	Standard	AquaTROLL SN 966105 iPad # 79	AquaTROLL SN 966105 iPad # 79
DO	% saturation	100	111.01	101.85
Conductivity	us/cm	4490	4659.0	4266.1
pH	S.U.	4.00	4.10	4.01
pH	S.U.	7.00	7.05	7.03
pH	S.U.	10.00	10.08	10.07
ORP	mV	228.00	231	223.5

Turbidity	Units	Standard	Hach SN 21010D000165	Hach SN 21010D000165
	NTU	20	20.4	19.5
	NTU	100	101	97.7
	NTU	800	803	803
	NTU	10.0	10.8	11.4

		Date:	04/05/2023	
		Time:	1045	
Parameter	Units	Standard	AquaTROLL SN 966105 iPad # 79	AquaTROLL SN _____ iPad # _____
DO	% saturation	100	107.19	
Conductivity	us/cm	4490	4491.7	
pH	S.U.	4.00	4.02	
pH	S.U.	7.00	6.99	
pH	S.U.	10.00	10.01	
ORP	mV	228.00	220.8	

Turbidity	Units	Standard	Hach SN 21010D000165	Hach SN _____
	NTU	20	18.2	
	NTU	100	94.1	
	NTU	800	788	
	NTU	10.0	10.7	

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

**APPENDIX B**

Laboratory Analytical Data, Data Validation Summary  
and Laboratory Accreditation

**APPENDIX B**

Laboratory Analytical Data, September 2022

November 10, 2022

Andrea McClure  
WSP/Golder  
5170 Peachtree Road  
Building 100, Suite 300  
Atlanta, GA 30341

RE: Project: McDonough Upgradient Wells-Revised Report  
Pace Project No.: 92624376

Dear Andrea McClure:

Enclosed are the analytical results for sample(s) received by the laboratory between September 08, 2022 and September 09, 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: Joju Abraham, Georgia Power-CCR  
Stephen Benda, Southern Company  
Noelia Gangi, Georgia Power  
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.  
Michael Smilley, Georgia Power  
Yong Cheng Soo, WSP/Golder  
Tina Sullivan, ERM



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: McDonough Upgradient Wells-Revised Report

Pace Project No.: 92624376

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### **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

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### **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

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### **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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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: McDonough Upgradient Wells-Revised Report  
Pace Project No.: 92624376

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Lab ID	Sample ID	Matrix	Date Collected	Date Received
92624376001	DGWA-70A	Water	09/07/22 09:35	09/08/22 09:45
92624376002	DGWA-71	Water	09/07/22 10:24	09/08/22 09:45
92624376003	DGWA-53	Water	09/08/22 13:28	09/09/22 15:50

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: McDonough Upgradient Wells-Revised Report  
Pace Project No.: 92624376

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92624376001	DGWA-70A	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92624376002	DGWA-71	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92624376003	DGWA-53	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		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 Wells-Revised Report  
Pace Project No.: 92624376

Sample: DGWA-70A		Lab ID: 92624376001		Collected: 09/07/22 09:35		Received: 09/08/22 09:45		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		09/08/22 13:35		
pH	<b>5.60</b>	Std. Units			1		09/08/22 13:35		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	ND	mg/L	0.040	0.025	1	09/21/22 12:19	09/21/22 20:31	7439-89-6	
Potassium	<b>1.6</b>	mg/L	0.20	0.15	1	09/21/22 12:19	09/21/22 20:31	7440-09-7	
Sodium	<b>3.4</b>	mg/L	1.0	0.58	1	09/21/22 12:19	09/21/22 20:31	7440-23-5	
Calcium	<b>5.9</b>	mg/L	1.0	0.12	1	09/21/22 12:19	09/21/22 20:31	7440-70-2	
Magnesium	<b>2.3</b>	mg/L	0.050	0.012	1	09/21/22 12:19	09/21/22 20:31	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/21/22 13:49	09/24/22 15:49	7440-36-0	
Arsenic	<b>0.0024J</b>	mg/L	0.0050	0.0022	1	09/21/22 13:49	09/24/22 15:49	7440-38-2	
Barium	<b>0.039</b>	mg/L	0.0050	0.00067	1	09/21/22 13:49	09/24/22 15:49	7440-39-3	
Beryllium	<b>0.000084J</b>	mg/L	0.00050	0.000054	1	09/21/22 13:49	09/24/22 15:49	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/21/22 13:49	09/24/22 15:49	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/21/22 13:49	09/24/22 15:49	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/21/22 13:49	09/24/22 15:49	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/21/22 13:49	09/24/22 15:49	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/21/22 13:49	09/24/22 15:49	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/21/22 13:49	09/24/22 15:49	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/21/22 13:49	09/24/22 15:49	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/21/22 13:49	09/24/22 15:49	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/21/22 13:49	09/24/22 15:49	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/22/22 14:00	09/22/22 17:40	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>34.0</b>	mg/L	25.0	10.0	1		09/09/22 15:04		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	<b>27.6</b>	mg/L	5.0	5.0	1		09/14/22 16:12		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/14/22 16:12		
Alkalinity, Total as CaCO3	<b>27.6</b>	mg/L	5.0	5.0	1		09/14/22 16:12		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>2.1</b>	mg/L	1.0	0.60	1		09/09/22 23:55	16887-00-6	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: McDonough Upgradient Wells-Revised Report

Pace Project No.: 92624376

Sample: DGWA-70A		Lab ID: 92624376001		Collected: 09/07/22 09:35	Received: 09/08/22 09:45	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Fluoride	<b>0.061J</b>	mg/L	0.10	0.050	1		09/09/22 23:55	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		09/09/22 23:55	14808-79-8	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: McDonough Upgradient Wells-Revised Report  
Pace Project No.: 92624376

Sample: DGWA-71		Lab ID: 92624376002		Collected: 09/07/22 10:24		Received: 09/08/22 09:45		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		09/08/22 13:36		
pH	<b>5.65</b>	Std. Units			1		09/08/22 13:36		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	ND	mg/L	0.040	0.025	1	09/21/22 12:19	09/21/22 20:36	7439-89-6	
Potassium	<b>0.76</b>	mg/L	0.20	0.15	1	09/21/22 12:19	09/21/22 20:36	7440-09-7	
Sodium	<b>8.1</b>	mg/L	1.0	0.58	1	09/21/22 12:19	09/21/22 20:36	7440-23-5	
Calcium	<b>6.4</b>	mg/L	1.0	0.12	1	09/21/22 12:19	09/21/22 20:36	7440-70-2	
Magnesium	<b>0.87</b>	mg/L	0.050	0.012	1	09/21/22 12:19	09/21/22 20:36	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/21/22 13:49	09/24/22 15:55	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/21/22 13:49	09/24/22 15:55	7440-38-2	
Barium	<b>0.025</b>	mg/L	0.0050	0.00067	1	09/21/22 13:49	09/24/22 15:55	7440-39-3	
Beryllium	<b>0.000075J</b>	mg/L	0.00050	0.000054	1	09/21/22 13:49	09/24/22 15:55	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/21/22 13:49	09/24/22 15:55	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/21/22 13:49	09/24/22 15:55	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/21/22 13:49	09/24/22 15:55	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/21/22 13:49	09/24/22 15:55	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/21/22 13:49	09/24/22 15:55	7439-92-1	
Lithium	<b>0.0012J</b>	mg/L	0.030	0.00073	1	09/21/22 13:49	09/24/22 15:55	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/21/22 13:49	09/24/22 15:55	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/21/22 13:49	09/24/22 15:55	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/21/22 13:49	09/24/22 15:55	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	<b>0.00013J</b>	mg/L	0.00020	0.00013	1	09/22/22 14:00	09/22/22 17:48	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>82.0</b>	mg/L	25.0	10.0	1		09/09/22 15:04		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	<b>16.0</b>	mg/L	5.0	5.0	1		09/14/22 16:28		
Alkalinity, Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	5.0	1		09/14/22 16:28		
Alkalinity, Total as CaCO <sub>3</sub>	<b>16.0</b>	mg/L	5.0	5.0	1		09/14/22 16:28		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>8.2</b>	mg/L	1.0	0.60	1		09/10/22 00:09	16887-00-6	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: McDonough Upgradient Wells-Revised Report

Pace Project No.: 92624376

Sample: DGWA-71		Lab ID: 92624376002		Collected: 09/07/22 10:24		Received: 09/08/22 09:45		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Fluoride	<b>0.056J</b>	mg/L	0.10	0.050	1		09/10/22 00:09	16984-48-8	
Sulfate	<b>7.0</b>	mg/L	1.0	0.50	1		09/10/22 00:09	14808-79-8	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: McDonough Upgradient Wells-Revised Report  
Pace Project No.: 92624376

Sample: DGWA-53		Lab ID: 92624376003		Collected: 09/08/22 13:28		Received: 09/09/22 15:50		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		09/09/22 17:33		
pH	<b>6.32</b>	Std. Units			1		09/09/22 17:33		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	<b>5.4</b>	mg/L	0.040	0.025	1	09/21/22 12:19	09/21/22 21:24	7439-89-6	
Sodium	<b>7.3</b>	mg/L	1.0	0.58	1	09/21/22 12:19	09/21/22 21:24	7440-23-5	
Calcium	<b>17.2</b>	mg/L	1.0	0.12	1	09/21/22 12:19	09/21/22 21:24	7440-70-2	
Magnesium	<b>5.8</b>	mg/L	0.050	0.012	1	09/21/22 12:19	09/21/22 21:24	7439-95-4	
Potassium	<b>3.6</b>	mg/L	0.20	0.15	1	09/21/22 12:19	09/22/22 21:10	7440-09-7	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/21/22 13:49	09/24/22 16:13	7440-36-0	
Arsenic	<b>0.0029J</b>	mg/L	0.0050	0.0022	1	09/21/22 13:49	09/24/22 16:13	7440-38-2	
Barium	<b>0.077</b>	mg/L	0.0050	0.00067	1	09/21/22 13:49	09/24/22 16:13	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/21/22 13:49	09/24/22 16:13	7440-41-7	
Boron	<b>0.054</b>	mg/L	0.040	0.0086	1	09/21/22 13:49	09/26/22 14:25	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/21/22 13:49	09/24/22 16:13	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/21/22 13:49	09/24/22 16:13	7440-47-3	
Cobalt	<b>0.012</b>	mg/L	0.0050	0.00039	1	09/21/22 13:49	09/24/22 16:13	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/21/22 13:49	09/24/22 16:13	7439-92-1	
Lithium	<b>0.0083J</b>	mg/L	0.030	0.00073	1	09/21/22 13:49	09/24/22 16:13	7439-93-2	
Molybdenum	<b>0.027</b>	mg/L	0.010	0.00074	1	09/21/22 13:49	09/24/22 16:13	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/21/22 13:49	09/24/22 16:13	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/21/22 13:49	09/24/22 16:13	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/22/22 14:00	09/22/22 17:51	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>129</b>	mg/L	25.0	10.0	1		09/14/22 12:26		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	<b>78.6</b>	mg/L	5.0	5.0	1		09/14/22 17:49		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/14/22 17:49		
Alkalinity, Total as CaCO3	<b>78.6</b>	mg/L	5.0	5.0	1		09/14/22 17:49		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>1.6</b>	mg/L	1.0	0.60	1		09/13/22 19:42	16887-00-6	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: McDonough Upgradient Wells-Revised Report

Pace Project No.: 92624376

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**Sample: DGWA-53**      **Lab ID: 92624376003**      Collected: 09/08/22 13:28      Received: 09/09/22 15:50      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	<b>0.11</b>	mg/L	0.10	0.050	1		09/13/22 19:42	16984-48-8	
Sulfate	<b>12.0</b>	mg/L	1.0	0.50	1		09/13/22 19:42	14808-79-8	

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### QUALITY CONTROL DATA

Project: McDonough Upgradient Wells-Revised Report  
Pace Project No.: 92624376

QC Batch: 724698 Analysis Method: EPA 6010D  
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL  
Laboratory: Pace Analytical Services - Peachtree Corners, GA  
Associated Lab Samples: 92624376001, 92624376002, 92624376003

METHOD BLANK: 3775652 Matrix: Water  
Associated Lab Samples: 92624376001, 92624376002, 92624376003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/21/22 19:48	
Iron	mg/L	ND	0.040	0.025	09/21/22 19:48	
Magnesium	mg/L	ND	0.050	0.012	09/21/22 19:48	
Potassium	mg/L	ND	0.20	0.15	09/21/22 19:48	
Sodium	mg/L	ND	1.0	0.58	09/21/22 19:48	

LABORATORY CONTROL SAMPLE: 3775653

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	101	80-120	
Magnesium	mg/L	1	1.0	104	80-120	
Potassium	mg/L	1	1.0	103	80-120	
Sodium	mg/L	1	1.1	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3775654 3775655

Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		92624373001 Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Calcium	mg/L	73.2	1	1	71.7	72.8	-152	-37	75-125	2	20	M1	
Iron	mg/L	1.9	1	1	2.9	2.9	101	100	75-125	0	20		
Magnesium	mg/L	25.2	1	1	25.7	25.7	49	52	75-125	0	20	M1	
Potassium	mg/L	8.2	1	1	9.0	9.1	75	90	75-125	2	20		
Sodium	mg/L	19.9	1	1	20.3	20.6	38	68	75-125	1	20	M1	

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### QUALITY CONTROL DATA

Project: McDonough Upgradient Wells-Revised Report  
Pace Project No.: 92624376

QC Batch: 724800 Analysis Method: EPA 6020B  
QC Batch Method: EPA 3005A Analysis Description: 6020 MET  
Laboratory: Pace Analytical Services - Peachtree Corners, GA  
Associated Lab Samples: 92624376001, 92624376002, 92624376003

METHOD BLANK: 3776150 Matrix: Water  
Associated Lab Samples: 92624376001, 92624376002, 92624376003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/24/22 14:20	
Arsenic	mg/L	ND	0.0050	0.0022	09/24/22 14:20	
Barium	mg/L	ND	0.0050	0.00067	09/24/22 14:20	
Beryllium	mg/L	ND	0.00050	0.000054	09/24/22 14:20	
Boron	mg/L	ND	0.040	0.0086	09/24/22 14:20	
Cadmium	mg/L	ND	0.00050	0.00011	09/24/22 14:20	
Chromium	mg/L	ND	0.0050	0.0011	09/24/22 14:20	
Cobalt	mg/L	ND	0.0050	0.00039	09/24/22 14:20	
Lead	mg/L	ND	0.0010	0.00089	09/24/22 14:20	
Lithium	mg/L	ND	0.030	0.00073	09/24/22 14:20	
Molybdenum	mg/L	ND	0.010	0.00074	09/24/22 14:20	
Selenium	mg/L	ND	0.0050	0.0014	09/24/22 14:20	
Thallium	mg/L	ND	0.0010	0.00018	09/24/22 14:20	

LABORATORY CONTROL SAMPLE: 3776151

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	102	80-120	
Barium	mg/L	0.1	0.099	99	80-120	
Beryllium	mg/L	0.1	0.10	102	80-120	
Boron	mg/L	1	1.1	107	80-120	
Cadmium	mg/L	0.1	0.10	100	80-120	
Chromium	mg/L	0.1	0.10	104	80-120	
Cobalt	mg/L	0.1	0.10	101	80-120	
Lead	mg/L	0.1	0.10	100	80-120	
Lithium	mg/L	0.1	0.098	98	80-120	
Molybdenum	mg/L	0.1	0.10	100	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: 3776152 3776153

Parameter	Units	92625866027 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	106	109	75-125	2	20	
Arsenic	mg/L	ND	0.1	0.1	0.1	0.10	99	101	75-125	2	20	

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### QUALITY CONTROL DATA

Project: McDonough Upgradient Wells-Revised Report

Pace Project No.: 92624376

Parameter	Units	3776152		3776153		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		92625866027 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Barium	mg/L	14.6 ug/L	0.1	0.1	0.12	0.12	102	102	75-125	0	20		
Beryllium	mg/L	ND	0.1	0.1	0.10	0.10	104	102	75-125	1	20		
Boron	mg/L	393 ug/L	1	1	1.6	1.6	116	116	75-125	0	20		
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	101	102	75-125	1	20		
Chromium	mg/L	22.8 ug/L	0.1	0.1	0.13	0.14	112	118	75-125	4	20		
Cobalt	mg/L	0.44J ug/L	0.1	0.1	0.098	0.10	98	101	75-125	3	20		
Lead	mg/L	ND	0.1	0.1	0.095	0.098	94	98	75-125	4	20		
Lithium	mg/L	ND	0.1	0.1	0.10	0.10	103	102	75-125	1	20		
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.11	100	105	75-125	5	20		
Selenium	mg/L	ND	0.1	0.1	0.098	0.10	98	100	75-125	2	20		
Thallium	mg/L	ND	0.1	0.1	0.095	0.099	95	99	75-125	4	20		

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### QUALITY CONTROL DATA

Project: McDonough Upgradient Wells-Revised Report  
Pace Project No.: 92624376

QC Batch: 724426 Analysis Method: EPA 7470A  
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury  
Laboratory: Pace Analytical Services - Peachtree Corners, GA  
Associated Lab Samples: 92624376001, 92624376002, 92624376003

METHOD BLANK: 3774367 Matrix: Water  
Associated Lab Samples: 92624376001, 92624376002, 92624376003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	09/22/22 17:16	

LABORATORY CONTROL SAMPLE: 3774368

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3774369 3774370

Parameter	Units	92624373001		3774370		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	0.00014J	0.0025	0.0025	0.0025	93	93	75-125	1	20	

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### QUALITY CONTROL DATA

Project: McDonough Upgradient Wells-Revised Report

Pace Project No.: 92624376

QC Batch: 722447	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: 92624376001, 92624376002

METHOD BLANK: 3764210 Matrix: Water

Associated Lab Samples: 92624376001, 92624376002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	10.0	09/09/22 14:58	

LABORATORY CONTROL SAMPLE: 3764211

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	382	96	80-120	

SAMPLE DUPLICATE: 3764212

Parameter	Units	92623815001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	351	346	1	10	

SAMPLE DUPLICATE: 3764213

Parameter	Units	92624372006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	102	107	5	10	

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### QUALITY CONTROL DATA

Project: McDonough Upgradient Wells-Revised Report  
Pace Project No.: 92624376

QC Batch: 722879      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: 92624376003

METHOD BLANK: 3766430      Matrix: Water  
Associated Lab Samples: 92624376003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	10.0	09/14/22 12:25	

LABORATORY CONTROL SAMPLE: 3766431

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	383	96	80-120	

SAMPLE DUPLICATE: 3766432

Parameter	Units	92624372008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	261	266	2	10	

SAMPLE DUPLICATE: 3766433

Parameter	Units	92624840016 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	238	250	5	10	

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### QUALITY CONTROL DATA

Project: McDonough Upgradient Wells-Revised Report  
Pace Project No.: 92624376

QC Batch: 723206 Analysis Method: SM 2320B-2011  
QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity  
Laboratory: Pace Analytical Services - Asheville  
Associated Lab Samples: 92624376001, 92624376002, 92624376003

METHOD BLANK: 3768028 Matrix: Water  
Associated Lab Samples: 92624376001, 92624376002, 92624376003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	09/14/22 14:56	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	09/14/22 14:56	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	09/14/22 14:56	

LABORATORY CONTROL SAMPLE: 3768029

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.2	100	80-120	

LABORATORY CONTROL SAMPLE: 3768030

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.8	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3768031 3768032

Parameter	Units	92625359004		3768031		3768032		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec				
Alkalinity, Total as CaCO3	mg/L	324	50	50	353	349	58	51	80-120	1	25 M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3768033 3768034

Parameter	Units	92624372011		3768033		3768034		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec				
Alkalinity, Total as CaCO3	mg/L	134	50	50	193	185	118	102	80-120	4	25

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### QUALITY CONTROL DATA

Project: McDonough Upgradient Wells-Revised Report

Pace Project No.: 92624376

QC Batch: 722303	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: 92624376001, 92624376002

METHOD BLANK: 3763468 Matrix: Water

Associated Lab Samples: 92624376001, 92624376002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/09/22 22:31	
Fluoride	mg/L	ND	0.10	0.050	09/09/22 22:31	
Sulfate	mg/L	ND	1.0	0.50	09/09/22 22:31	

LABORATORY CONTROL SAMPLE: 3763469

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	100	90-110	
Sulfate	mg/L	50	50.5	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3763470 3763471

Parameter	Units	92624373001		3763470		3763471		% 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	16.4	16.4	50	50	68.2	69.0	103	105	90-110	1	10	
Fluoride	mg/L	0.11	0.11	2.5	2.5	2.4	2.5	93	94	90-110	1	10	
Sulfate	mg/L	263	263	50	50	311	309	96	92	90-110	1	10	

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### QUALITY CONTROL DATA

Project: McDonough Upgradient Wells-Revised Report  
Pace Project No.: 92624376

QC Batch: 722843 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: 92624376003

METHOD BLANK: 3766296 Matrix: Water  
Associated Lab Samples: 92624376003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/13/22 12:35	
Fluoride	mg/L	ND	0.10	0.050	09/13/22 12:35	
Sulfate	mg/L	ND	1.0	0.50	09/13/22 12:35	

LABORATORY CONTROL SAMPLE: 3766297

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	100	90-110	
Sulfate	mg/L	50	50.8	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3766298 3766299

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92624945004	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	938	50	50	975	975	73	74	90-110	0	10	M1	
Fluoride	mg/L	ND	2.5	2.5	3.3J	3.8J	132	151	90-110		10	M1	
Sulfate	mg/L	3180	50	50	3170	3160	-30	-43	90-110	0	10	M1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3766300 3766301

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92624372011	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	5.4	50	50	57.1	58.0	103	105	90-110	2	10		
Fluoride	mg/L	0.082J	2.5	2.5	2.4	2.4	92	92	90-110	0	10		
Sulfate	mg/L	96.6	50	50	150	153	106	113	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 Wells-Revised Report

Pace Project No.: 92624376

---

### 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 Wells-Revised Report  
Pace Project No.: 92624376

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92624376001	DGWA-70A				
92624376002	DGWA-71				
92624376003	DGWA-53				
92624376001	DGWA-70A	EPA 3010A	724698	EPA 6010D	724853
92624376002	DGWA-71	EPA 3010A	724698	EPA 6010D	724853
92624376003	DGWA-53	EPA 3010A	724698	EPA 6010D	724853
92624376001	DGWA-70A	EPA 3005A	724800	EPA 6020B	724886
92624376002	DGWA-71	EPA 3005A	724800	EPA 6020B	724886
92624376003	DGWA-53	EPA 3005A	724800	EPA 6020B	724886
92624376001	DGWA-70A	EPA 7470A	724426	EPA 7470A	725130
92624376002	DGWA-71	EPA 7470A	724426	EPA 7470A	725130
92624376003	DGWA-53	EPA 7470A	724426	EPA 7470A	725130
92624376001	DGWA-70A	SM 2540C-2015	722447		
92624376002	DGWA-71	SM 2540C-2015	722447		
92624376003	DGWA-53	SM 2540C-2015	722879		
92624376001	DGWA-70A	SM 2320B-2011	723206		
92624376002	DGWA-71	SM 2320B-2011	723206		
92624376003	DGWA-53	SM 2320B-2011	723206		
92624376001	DGWA-70A	EPA 300.0 Rev 2.1 1993	722303		
92624376002	DGWA-71	EPA 300.0 Rev 2.1 1993	722303		
92624376003	DGWA-53	EPA 300.0 Rev 2.1 1993	722843		

### REPORT OF LABORATORY ANALYSIS

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	Document Name: <b>Sample Condition Upon Receipt (SCUR)</b>	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#: 92624376**



Courier:  Commercial  Fed Ex  UPS  USPS  Client  Pace  Other: \_\_\_\_\_

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 9/8/22  
JM

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: 2.1 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): 2.1

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. <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>WG</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 Seal's 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.

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

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

Project #

**WO# : 92624376**  
 PM: NMG Due Date: 09/22/22  
 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) (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)	SP3T-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																														
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9																														
10																														
11																														
12																														

BPIN  
2  
2

**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-C5-033-Rev.08
Document Revised: November 15, 2021	Page 1 of 2
Issuing Authority Face Carolinas Quality Office	

Laboratory receiving samples:  Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

**Sample Condition** Upon Receipt  
**Client Name:** Georgia Power  
**Project #:** \_\_\_\_\_  
 Courier:  Commercial  Fed ex  USPS  Client  
 Custody Seal Present?  Yes  No  
 Seals Intact?  Yes  No  
 Packing Material:  Bubble Wrap  Bubble Bags  None  Other  
 Thermometer:  IR gun ID: 230  
 Cooler Temp: 2.4 Correction Factor: 0.0  
 Add/Subtract (°C) 2.4  
 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

Date/Initials Person Examining Contents: 9/9/22  
 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?	Samples Arrived within Hold Time?	Short Hold Time Analysis (<72 hr.)?	Rush Turn Around Time Requested?	Sufficient Volume?	Correct Containers Used?	-Face Containers Used?	Containers Intact?	Dissolved analysis: Samples Field Filtered?	Sample Labels Match COC?	-Includes Date/Time/ID/Analysis Matrix: <u>W4</u>	Headspace in VOA Vials (>5-6mm)?	Trip Blank Present?	Trip Blank Custody Seals Present?
1. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

COMMENTS/SAMPLE DISCREPANCY  Yes  No

CLIENT NOTIFICATION/RESOLUTION Lot ID of split containers: \_\_\_\_\_

Person contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Project Manager SCURF Review: \_\_\_\_\_

Project Manager SRF Review: \_\_\_\_\_

Date: \_\_\_\_\_

Date: \_\_\_\_\_

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)

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

Item#	1	2	3	4	5	6	7	8	9	10	11	12
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-)												
BP3M-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)												
<b>BPIN</b>												
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)												

\*\*Bottom half of box is to list number of bottles  
 \*\*Check all unpreserved Nitrates for chlorine

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

within the acceptance range for preservation samples.

\*Check mark top half of box if pH and/or dechlorination is verified and Project #

Effective Date: 05/12/2022

DC#\_Title: ENV-FRM-HUN1-0083 v01\_Sample Condition Upon Receipt

November 04, 2022

Andrea McClure  
WSP/Golder  
5170 Peachtree Road  
Building 100, Suite 300  
Atlanta, GA 30341

RE: Project: McDonough Upgradient Wells Rad-Revised Report  
Pace Project No.: 92624378

Dear Andrea McClure:

Enclosed are the analytical results for sample(s) received by the laboratory between September 08, 2022 and September 09, 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

Revision 1: Issued on 11/4/22 to include Radium QC Sheets.

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: Joju Abraham, Georgia Power-CCR  
Stephen Benda, Southern Company  
Noelia Gangi, Georgia Power  
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.  
Michael Smilley, Georgia Power  
Yong Cheng Soo, WSP/Golder  
Tina Sullivan, ERM



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: McDonough Upgradient Wells Rad-Revised Report

Pace Project No.: 92624378

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### **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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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: McDonough Upgradient Wells Rad-Revised Report  
Pace Project No.: 92624378

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92624378001	DGWA-70A	Water	09/07/22 09:35	09/08/22 09:45
92624378002	DGWA-71	Water	09/07/22 10:24	09/08/22 09:45
92624378003	DGWA-53	Water	09/08/22 13:28	09/09/22 15:50

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: McDonough Upgradient Wells Rad-Revised Report

Pace Project No.: 92624378

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92624378001	DGWA-70A	EPA 9315	RMS	1	PASI-PA
		EPA 9320	CMC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92624378002	DGWA-71	EPA 9315	RMS	1	PASI-PA
		EPA 9320	CMC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92624378003	DGWA-53	EPA 9315	RMS	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 Upgradient Wells Rad-Revised Report

Pace Project No.: 92624378

**Sample: DGWA-70A**      **Lab ID: 92624378001**      Collected: 09/07/22 09:35      Received: 09/08/22 09:45      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	<b>0.115 ± 0.101 (0.182)</b> <b>C:97% T:NA</b>	pCi/L	09/27/22 09:19	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.389 ± 0.508 (1.08)</b> <b>C:70% T:94%</b>	pCi/L	09/23/22 19:06	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.504 ± 0.609 (1.26)</b>	pCi/L	09/27/22 14:32	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough Upgradient Wells Rad-Revised Report

Pace Project No.: 92624378

**Sample: DGWA-71**      **Lab ID: 92624378002**      Collected: 09/07/22 10:24      Received: 09/08/22 09:45      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	<b>0.169 ± 0.115 (0.181)</b> <b>C:99% T:NA</b>	pCi/L	09/27/22 09:19	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.419 ± 0.516 (1.09)</b> <b>C:71% T:86%</b>	pCi/L	09/23/22 19:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.588 ± 0.631 (1.27)</b>	pCi/L	09/27/22 14:32	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough Upgradient Wells Rad-Revised Report

Pace Project No.: 92624378

**Sample: DGWA-53**      **Lab ID: 92624378003**      Collected: 09/08/22 13:28      Received: 09/09/22 15:50      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	<b>0.878 ± 0.244 (0.129)</b> <b>C:93% T:NA</b>	pCi/L	10/02/22 10:26	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.814 ± 0.382 (0.636)</b> <b>C:74% T:92%</b>	pCi/L	09/28/22 12:21	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.69 ± 0.626 (0.765)</b>	pCi/L	10/03/22 12:21	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: McDonough Upgradient Wells Rad-Revised Report

Pace Project No.: 92624378

QC Batch: 533110

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92624378003

METHOD BLANK: 2586601

Matrix: Water

Associated Lab Samples: 92624378003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.00759 ± 0.0468 (0.133) C:88% T:NA	pCi/L	10/02/22 10:24	

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 Upgradient Wells Rad-Revised Report

Pace Project No.: 92624378

QC Batch: 532087

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92624378001, 92624378002

METHOD BLANK: 2581306

Matrix: Water

Associated Lab Samples: 92624378001, 92624378002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.122 ± 0.122 (0.241) C:95% T:NA	pCi/L	09/27/22 08:34	

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 Wells Rad-Revised Report

Pace Project No.: 92624378

QC Batch: 533111

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92624378003

METHOD BLANK: 2586603

Matrix: Water

Associated Lab Samples: 92624378003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.798 ± 0.368 (0.604) C:81% T:85%	pCi/L	09/28/22 11:36	

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 Wells Rad-Revised Report

Pace Project No.: 92624378

QC Batch: 532089

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92624378001, 92624378002

METHOD BLANK: 2581322

Matrix: Water

Associated Lab Samples: 92624378001, 92624378002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.391 ± 0.413 (0.858) C:74% T:78%	pCi/L	09/23/22 16:00	

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

### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: McDonough Upgradient Wells Rad-Revised Report

Pace Project No.: 92624378

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### 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 Wells Rad-Revised Report  
Pace Project No.: 92624378

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92624378001	DGWA-70A	EPA 9315	532087		
92624378002	DGWA-71	EPA 9315	532087		
92624378003	DGWA-53	EPA 9315	533110		
92624378001	DGWA-70A	EPA 9320	532089		
92624378002	DGWA-71	EPA 9320	532089		
92624378003	DGWA-53	EPA 9320	533111		
92624378001	DGWA-70A	Total Radium Calculation	535756		
92624378002	DGWA-71	Total Radium Calculation	535756		
92624378003	DGWA-53	Total Radium Calculation	536982		

### 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# : 92624378**



Courier:  Commercial  Fed Ex  Pace  UPS  USPS  Other:  Client

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 9/8/22  
JM

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: 2.1 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): 2.1

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. <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>WG</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:  
 Face Analytical

\*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#: 92624378**

PM: NMG

Due Date: 09/29/22

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)	AG3A(DG3A)-250 mL Amber NH4C (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA NazSO3 (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)			
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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: <b>Sample Condition Upon Receipt (SCUR)</b>	Document Revised: November 15, 2021 Page 1 of 2
	Document No.: <b>F-CAR-CS-033-Rev.08</b>	Issuing Authority: Pace Carolinas Quality Office

**Laboratory receiving samples:**

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

<b>Sample Condition Upon Receipt</b> Courier: <input type="checkbox"/> Commercial <input type="checkbox"/> Fed Ex <input type="checkbox"/> Pace <input type="checkbox"/> UPS <input type="checkbox"/> USPS <input type="checkbox"/> Other: _____ <input checked="" type="checkbox"/> Client	Client Name: <u>Georgia Power</u>	Project #: <div style="border: 1px solid black; height: 40px; width: 100%;"></div>
---	--------------------------------------	---

Custody Seal Present?  Yes  No    Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 9/9/22 JM

Packing Material:  Bubble Wrap     Bubble Bags     None     Other

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

Biological Tissue Frozen?  Yes     No     N/A

Cooler Temp: 2.4    Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 5°C  
 Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 2.4

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 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>WLS</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 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 (NH4)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)			
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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.

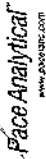
Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Lauren Colker	Attention:	scmvo@gs.com
Address:	2400 Marner Road Atlanta, GA 30339	Copy To:	Cooler	Company Name:	
Email:	laucoker@southemco.com	Purchase Order #:		Address:	
Phone:	(470) 620-6176	Project Name:	Plant McDonough Upgradient Walls	Page Quote:	
Requested Due Date:	10 Day TAT	Project #:	CL166846K22	Page Project Manager:	Nicole D'Orten
				Page Profile #:	

Regulatory Agency		State / Location	
		GA	

ITEM #	MATRIX CODE	DATE	TIME	SAMPLER TYPE	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLER CONDITIONS	Received on Ice (Y/N)	Sealed (Y/N)	Cooled (Y/N)	Samples Intact (Y/N)
3	DGWA-53	9/12/22	13:28	G	9/12/22	15:50	Charles Hens	9/12/22	15:50					
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														

ADDITIONAL COMMENTS	Mark Merritt/Golder 09/09/22 15:50
DATE SIGNED:	

# Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226  
Analyst: RMS  
Date: 9/20/2022  
Worklist: 68887  
Matrix: DW

Method Blank Assessment	
MB Sample ID	25866801
MB Concentration:	0.008
MB Counting Uncertainty:	0.047
MB MDC:	0.133
MB Numerical Performance Indicator:	0.32
MB Status vs Numerical Indicator:	N/A
MB Status vs MDC:	Pass

Laboratory Control Sample Assessment		LCS D (Y or N)?	N
Count Date:		LCS 68887	LCS D 68887
Spike I.D.:		10/2/2022	
Decay Corrected Spike Concentration (pCi/mL):		19.033	
Volume Used (mL):		24.023	
Aliquot Volume (L, g, F):		0.10	
Target Conc. (pCi/L, g, F):		0.505	
Uncertainty (Calculated):		4.760	
Result (pCi/L, g, F):		0.057	
Numerical Performance Indicator:		3.983	
Percent Recovery:		0.431	
Status vs Numerical Indicator:		-3.46	
Upper % Recovery Limits:		63.89%	
Lower % Recovery Limits:		N/A	
Pass		125%	
Fail		75%	

Duplicate Sample Assessment		Sample I.D.	92624832001	92624832002
Duplicate Sample I.D.:		92624832001	92624832001	92624832002
Duplicate Result (pCi/L, g, F):		0.124	0.124	0.124
Sample Result Counting Uncertainty (pCi/L, g, F):		0.091	0.091	0.091
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):		0.071	0.071	0.187
Are sample and/or duplicate results below RL?		See Below ##	See Below ##	See Below ##
Duplicate Numerical Performance Indicator:		0.874	0.888	40.32%
Duplicate RPD:		53.80%	40.32%	Fail
Duplicate Status vs Numerical Indicator:		N/A	N/A	Fail
Duplicate Status vs RPD:		25%	25%	25%
% 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-processed to meet acceptable precision. N/A

M. 10/3/22

LAM 10/3/22

LAM 10/3/22

# Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow

Test: Ra-228  
Analyst: VAL  
Date: 9/14/2022  
Worklist: 68823  
Matrix: WT



**Method Blank Assessment**

MB Sample ID: 2591322  
 MB Concentration: 0.391  
 MB 2 Sigma CSU: 0.413  
 MB MDC: 0.858  
 MB Numerical Performance Indicator: 1.86  
 MB Status vs Numerical Indicator: Pass  
 MB Status vs. MDC: Pass

**Laboratory Control Sample Assessment**

LCSID (Y or N)?	Y
LCS068823	9/23/2022
Count Date:	20-030
Spike I.D.:	30.094
Decay Corrected Spike Concentration (pCi/mL):	0.10
Volume Used (mL):	0.815
Aliquot Volume (L, g, F):	3.707
Target Conc. (pCi/L, g, F):	0.181
Uncertainty (Calculated):	3.360
Result (pCi/L, g, F):	0.865
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	-0.74
Numerical Performance Indicator:	90.99%
Percent Recovery:	N/A
Status vs Numerical Indicator:	Pass
Upper % Recovery Limits:	135%
Lower % Recovery Limits:	60%

**Duplicate Sample Assessment**

Sample I.D.:	LCS068823
Duplicate Sample I.D.:	LCS068823
Sample Result (pCi/L, g, F):	3.342
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.875
Sample Duplicate Result (pCi/L, g, F):	3.360
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.865
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	-0.930
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	0.94%
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 and initials*

**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):  
 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):

MS/MSD 1

MS/MSD 2

**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 Spike Duplicate Result:  
 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:

# Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow

Test: Ra-228  
Analyst: VAL  
Date: 9/19/2022  
Worklist: 68888  
Matrix: WT



**Method Blank Assessment**

MB Sample ID: 2566603  
 MB concentration: 0.798  
 MB 2 Sigma CSU: 0.368  
 MB MDC: 0.604  
 MB Numerical Performance Indicator: 4.25  
 MB Status vs Numerical Indicator: Fail\*  
 MB Status vs MDC: See Comment\*\*

Laboratory Control Sample Assessment	
LCSID (Y or N)?	Y
LCSID68888	9/28/2022
Count Date:	22-029
Spike I.D.:	19.913
Decay Corrected Spike Concentration (pCi/mL):	0.20
Volume Used (mL):	0.808
Aliquot Volume (L, g, F):	4.827
Target Conc. (pCi/L, g, F):	0.355
Uncertainty (Calculated):	5.197
Result (pCi/L, g, F):	1.258
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.05
Numerical Performance Indicator:	114.19%
Percent Recovery:	N/A
Status vs Numerical Indicator:	Pass
Upper % Recovery Limits:	135%
Lower % Recovery Limits:	60%

Duplicate Sample Assessment	
LCSID68888	9/28/2022
Sample I.D.:	5.626
Duplicate Sample I.D.:	1.255
Sample Result (pCi/L, g, F):	5.197
Sample Duplicate Result (pCi/L, g, F):	1.158
Sample Result 2 Sigma CSU (pCi/L, g, F):	NO
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.493
Are sample and/or duplicate results below RL?:	7.89%
Duplicate Numerical Performance Indicator:	Pass
Duplicate Percent Recoveries:	Pass
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	36%
% RPD Limit:	

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): MS Target Conc. (pCi/L, g, F): MS Spike Uncertainty (calculated): MS 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: 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: 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:

# 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.

*Amabak*

November 29, 2022

Andrea McClure  
WSP/Golder  
5170 Peachtree Road  
Building 100, Suite 300  
Atlanta, GA 30341

RE: Project: McDonough AP-1 Assessment-Revised Report  
Pace Project No.: 92624373

Dear Andrea McClure:

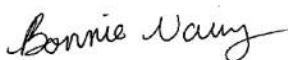
Enclosed are the analytical results for sample(s) received by the laboratory on September 09, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise 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,



Bonnie Vang  
bonnie.vang@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR  
Stephen Benda, Southern Company  
Noelia Gangi, Georgia Power  
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.  
Michael Smilley, Georgia Power  
Yong Cheng Soo, WSP/Golder  
Tina Sullivan, ERM



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: McDonough AP-1 Assessment-Revised Report

Pace Project No.: 92624373

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### **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 AP-1 Assessment-Revised Report  
Pace Project No.: 92624373

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Lab ID	Sample ID	Matrix	Date Collected	Date Received
92624373003	B-100	Water	09/08/22 11:05	09/09/22 15:50
92624373004	B-62	Water	09/09/22 11:25	09/09/22 15:50

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: McDonough AP-1 Assessment-Revised Report

Pace Project No.: 92624373

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92624373003	B-100	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92624373004	B-62	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		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-1 Assessment-Revised Report  
Pace Project No.: 92624373

Sample: B-100		Lab ID: 92624373003		Collected: 09/08/22 11:05		Received: 09/09/22 15:50		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		09/09/22 17:31		
pH	<b>5.24</b>	Std. Units			1		09/09/22 17:31		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	<b>25.0</b>	mg/L	0.040	0.025	1	09/21/22 12:19	09/21/22 21:14	7439-89-6	
Sodium	<b>27.0</b>	mg/L	1.0	0.58	1	09/21/22 12:19	09/21/22 21:14	7440-23-5	
Calcium	<b>46.0</b>	mg/L	1.0	0.12	1	09/21/22 12:19	09/21/22 21:14	7440-70-2	
Potassium	<b>1.2</b>	mg/L	0.20	0.15	1	09/21/22 12:19	09/22/22 20:51	7440-09-7	
Magnesium	<b>46.3</b>	mg/L	0.050	0.012	1	09/21/22 12:19	09/22/22 20:51	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/21/22 13:49	09/24/22 16:01	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/21/22 13:49	09/24/22 16:01	7440-38-2	
Barium	<b>0.021</b>	mg/L	0.0050	0.00067	1	09/21/22 13:49	09/24/22 16:01	7440-39-3	
Beryllium	<b>0.00058</b>	mg/L	0.00050	0.000054	1	09/21/22 13:49	09/24/22 16:01	7440-41-7	
Boron	<b>0.24</b>	mg/L	0.040	0.0086	1	09/21/22 13:49	09/26/22 14:13	7440-42-8	
Cadmium	<b>0.00027J</b>	mg/L	0.00050	0.00011	1	09/21/22 13:49	09/24/22 16:01	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/21/22 13:49	09/24/22 16:01	7440-47-3	
Cobalt	<b>0.028</b>	mg/L	0.0050	0.00039	1	09/21/22 13:49	09/24/22 16:01	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/21/22 13:49	09/24/22 16:01	7439-92-1	
Lithium	<b>0.0023J</b>	mg/L	0.030	0.00073	1	09/21/22 13:49	09/24/22 16:01	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/21/22 13:49	09/24/22 16:01	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/21/22 13:49	09/24/22 16:01	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/21/22 13:49	09/24/22 16:01	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/22/22 14:00	09/22/22 17:35	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>606</b>	mg/L	50.0	20.0	1		09/14/22 11:32		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	<b>31.5</b>	mg/L	5.0	5.0	1		09/14/22 17:16		
Alkalinity, Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	5.0	1		09/14/22 17:16		
Alkalinity, Total as CaCO <sub>3</sub>	<b>31.5</b>	mg/L	5.0	5.0	1		09/14/22 17:16		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>10.2</b>	mg/L	1.0	0.60	1		09/13/22 19:12	16887-00-6	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: McDonough AP-1 Assessment-Revised Report  
Pace Project No.: 92624373

Sample: B-100		Lab ID: 92624373003		Collected: 09/08/22 11:05		Received: 09/09/22 15:50		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Fluoride	<b>0.072J</b>	mg/L	0.10	0.050	1		09/13/22 19:12	16984-48-8	
Sulfate	<b>399</b>	mg/L	8.0	4.0	8		09/14/22 21:32	14808-79-8	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: McDonough AP-1 Assessment-Revised Report  
Pace Project No.: 92624373

Sample: B-62		Lab ID: 92624373004		Collected: 09/09/22 11:25		Received: 09/09/22 15:50		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		09/09/22 17:31		
pH	<b>6.22</b>	Std. Units			1		09/09/22 17:31		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	<b>2.4</b>	mg/L	0.20	0.15	1	09/21/22 12:19	09/22/22 21:05	7440-09-7	
Iron	<b>6.5</b>	mg/L	0.040	0.025	1	09/21/22 12:19	09/21/22 21:19	7439-89-6	
Sodium	<b>10.2</b>	mg/L	1.0	0.58	1	09/21/22 12:19	09/21/22 21:19	7440-23-5	
Calcium	<b>31.4</b>	mg/L	1.0	0.12	1	09/21/22 12:19	09/21/22 21:19	7440-70-2	
Magnesium	<b>5.1</b>	mg/L	0.050	0.012	1	09/21/22 12:19	09/21/22 21:19	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/21/22 13:49	09/24/22 16:07	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/21/22 13:49	09/24/22 16:07	7440-38-2	
Barium	<b>0.018</b>	mg/L	0.0050	0.00067	1	09/21/22 13:49	09/24/22 16:07	7440-39-3	
Beryllium	<b>0.00013J</b>	mg/L	0.00050	0.000054	1	09/21/22 13:49	09/24/22 16:07	7440-41-7	
Boron	<b>0.064</b>	mg/L	0.040	0.0086	1	09/21/22 13:49	09/26/22 14:19	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/21/22 13:49	09/24/22 16:07	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/21/22 13:49	09/24/22 16:07	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/21/22 13:49	09/24/22 16:07	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/21/22 13:49	09/24/22 16:07	7439-92-1	
Lithium	<b>0.0085J</b>	mg/L	0.030	0.00073	1	09/21/22 13:49	09/24/22 16:07	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/21/22 13:49	09/24/22 16:07	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/21/22 13:49	09/24/22 16:07	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/21/22 13:49	09/24/22 16:07	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/22/22 14:00	09/22/22 17:38	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>160</b>	mg/L	25.0	10.0	1		09/14/22 11:33		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	<b>70.3</b>	mg/L	5.0	5.0	1		09/14/22 17:23		
Alkalinity, Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	5.0	1		09/14/22 17:23		
Alkalinity, Total as CaCO <sub>3</sub>	<b>70.3</b>	mg/L	5.0	5.0	1		09/14/22 17:23		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>5.3</b>	mg/L	1.0	0.60	1		09/13/22 19:27	16887-00-6	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: McDonough AP-1 Assessment-Revised Report

Pace Project No.: 92624373

Sample: B-62		Lab ID: 92624373004		Collected: 09/09/22 11:25	Received: 09/09/22 15:50	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Fluoride	<b>0.13</b>	mg/L	0.10	0.050	1		09/13/22 19:27	16984-48-8	
Sulfate	<b>45.8</b>	mg/L	1.0	0.50	1		09/13/22 19:27	14808-79-8	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: McDonough AP-1 Assessment-Revised Report

Pace Project No.: 92624373

QC Batch: 724698	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010D ATL
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92624373003, 92624373004

METHOD BLANK: 3775652 Matrix: Water

Associated Lab Samples: 92624373003, 92624373004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/21/22 19:48	
Iron	mg/L	ND	0.040	0.025	09/21/22 19:48	
Magnesium	mg/L	ND	0.050	0.012	09/21/22 19:48	
Potassium	mg/L	ND	0.20	0.15	09/21/22 19:48	
Sodium	mg/L	ND	1.0	0.58	09/21/22 19:48	

LABORATORY CONTROL SAMPLE: 3775653

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	101	80-120	
Magnesium	mg/L	1	1.0	104	80-120	
Potassium	mg/L	1	1.0	103	80-120	
Sodium	mg/L	1	1.1	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3775654 3775655

Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		92624373001	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Calcium	mg/L	73.2	1	1	71.7	72.8	-152	-37	75-125	2	20	M1	
Iron	mg/L	1.9	1	1	2.9	2.9	101	100	75-125	0	20		
Magnesium	mg/L	25.2	1	1	25.7	25.7	49	52	75-125	0	20	M1	
Potassium	mg/L	8.2	1	1	9.0	9.1	75	90	75-125	2	20		
Sodium	mg/L	19.9	1	1	20.3	20.6	38	68	75-125	1	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-1 Assessment-Revised Report  
Pace Project No.: 92624373

QC Batch: 724800 Analysis Method: EPA 6020B  
QC Batch Method: EPA 3005A Analysis Description: 6020 MET  
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92624373003, 92624373004

METHOD BLANK: 3776150 Matrix: Water  
Associated Lab Samples: 92624373003, 92624373004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/24/22 14:20	
Arsenic	mg/L	ND	0.0050	0.0022	09/24/22 14:20	
Barium	mg/L	ND	0.0050	0.00067	09/24/22 14:20	
Beryllium	mg/L	ND	0.00050	0.000054	09/24/22 14:20	
Boron	mg/L	ND	0.040	0.0086	09/24/22 14:20	
Cadmium	mg/L	ND	0.00050	0.00011	09/24/22 14:20	
Chromium	mg/L	ND	0.0050	0.0011	09/24/22 14:20	
Cobalt	mg/L	ND	0.0050	0.00039	09/24/22 14:20	
Lead	mg/L	ND	0.0010	0.00089	09/24/22 14:20	
Lithium	mg/L	ND	0.030	0.00073	09/24/22 14:20	
Molybdenum	mg/L	ND	0.010	0.00074	09/24/22 14:20	
Selenium	mg/L	ND	0.0050	0.0014	09/24/22 14:20	
Thallium	mg/L	ND	0.0010	0.00018	09/24/22 14:20	

LABORATORY CONTROL SAMPLE: 3776151

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	102	80-120	
Barium	mg/L	0.1	0.099	99	80-120	
Beryllium	mg/L	0.1	0.10	102	80-120	
Boron	mg/L	1	1.1	107	80-120	
Cadmium	mg/L	0.1	0.10	100	80-120	
Chromium	mg/L	0.1	0.10	104	80-120	
Cobalt	mg/L	0.1	0.10	101	80-120	
Lead	mg/L	0.1	0.10	100	80-120	
Lithium	mg/L	0.1	0.098	98	80-120	
Molybdenum	mg/L	0.1	0.10	100	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: 3776152 3776153

Parameter	Units	92625866027 Result	MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			MS Spike Conc.	MSD Spike Conc.								
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	106	109	75-125	2	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	99	101	75-125	2	20	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: McDonough AP-1 Assessment-Revised Report  
Pace Project No.: 92624373

Parameter	Units	3776152		3776153		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92625866027 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Barium	mg/L	14.6 ug/L	0.1	0.1	0.12	0.12	102	102	75-125	0	20		
Beryllium	mg/L	ND	0.1	0.1	0.10	0.10	104	102	75-125	1	20		
Boron	mg/L	393 ug/L	1	1	1.6	1.6	116	116	75-125	0	20		
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	101	102	75-125	1	20		
Chromium	mg/L	22.8 ug/L	0.1	0.1	0.13	0.14	112	118	75-125	4	20		
Cobalt	mg/L	0.44J ug/L	0.1	0.1	0.098	0.10	98	101	75-125	3	20		
Lead	mg/L	ND	0.1	0.1	0.095	0.098	94	98	75-125	4	20		
Lithium	mg/L	ND	0.1	0.1	0.10	0.10	103	102	75-125	1	20		
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.11	100	105	75-125	5	20		
Selenium	mg/L	ND	0.1	0.1	0.098	0.10	98	100	75-125	2	20		
Thallium	mg/L	ND	0.1	0.1	0.095	0.099	95	99	75-125	4	20		

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### QUALITY CONTROL DATA

Project: McDonough AP-1 Assessment-Revised Report

Pace Project No.: 92624373

QC Batch: 724426

Analysis Method: EPA 7470A

QC Batch Method: EPA 7470A

Analysis Description: 7470 Mercury

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92624373003, 92624373004

METHOD BLANK: 3774367

Matrix: Water

Associated Lab Samples: 92624373003, 92624373004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	09/22/22 17:16	

LABORATORY CONTROL SAMPLE: 3774368

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3774369 3774370

Parameter	Units	3774369		3774370		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	0.00014J	0.0025	0.0025	0.0025	93	93	75-125	1	20	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: McDonough AP-1 Assessment-Revised Report  
Pace Project No.: 92624373

QC Batch: 722886 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: 92624373003, 92624373004

METHOD BLANK: 3766455 Matrix: Water  
Associated Lab Samples: 92624373003, 92624373004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	10.0	09/14/22 11:30	

LABORATORY CONTROL SAMPLE: 3766456

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	384	96	80-120	

SAMPLE DUPLICATE: 3766458

Parameter	Units	92624840004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	620000 ug/L	680	9	10	

SAMPLE DUPLICATE: 3767354

Parameter	Units	92624372007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	252	297	16	10 R1	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: McDonough AP-1 Assessment-Revised Report  
Pace Project No.: 92624373

QC Batch: 723206 Analysis Method: SM 2320B-2011  
QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity  
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92624373003, 92624373004

METHOD BLANK: 3768028 Matrix: Water  
Associated Lab Samples: 92624373003, 92624373004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	09/14/22 14:56	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	09/14/22 14:56	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	09/14/22 14:56	

LABORATORY CONTROL SAMPLE: 3768029

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.2	100	80-120	

LABORATORY CONTROL SAMPLE: 3768030

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.8	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3768031 3768032

Parameter	Units	92625359004		3768031		3768032		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					MS % Rec
Alkalinity, Total as CaCO3	mg/L	324	324	50	50	353	349	58	51	80-120	1	25 M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3768033 3768034

Parameter	Units	92624372011		3768033		3768034		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					MS % Rec
Alkalinity, Total as CaCO3	mg/L	134	134	50	50	193	185	118	102	80-120	4	25

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: McDonough AP-1 Assessment-Revised Report  
Pace Project No.: 92624373

QC Batch: 722843 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: 92624373003, 92624373004

METHOD BLANK: 3766296 Matrix: Water  
Associated Lab Samples: 92624373003, 92624373004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/13/22 12:35	
Fluoride	mg/L	ND	0.10	0.050	09/13/22 12:35	
Sulfate	mg/L	ND	1.0	0.50	09/13/22 12:35	

LABORATORY CONTROL SAMPLE: 3766297

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	100	90-110	
Sulfate	mg/L	50	50.8	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3766298 3766299

Parameter	Units	92624945004		MS		MSD		% Rec	% Rec	% Rec	Limits	RPD	Max	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result							
Chloride	mg/L	938	50	50	975	975	73	74	90-110	0	10	M1		
Fluoride	mg/L	ND	2.5	2.5	3.3J	3.8J	132	151	90-110		10	M1		
Sulfate	mg/L	3180	50	50	3170	3160	-30	-43	90-110	0	10	M1		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3766300 3766301

Parameter	Units	92624372011		MS		MSD		% Rec	% Rec	% Rec	Limits	RPD	Max	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result							
Chloride	mg/L	5.4	50	50	57.1	58.0	103	105	90-110	2	10			
Fluoride	mg/L	0.082J	2.5	2.5	2.4	2.4	92	92	90-110	0	10			
Sulfate	mg/L	96.6	50	50	150	153	106	113	90-110	2	10	M1		

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### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: McDonough AP-1 Assessment-Revised Report

Pace Project No.: 92624373

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### 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 Assessment-Revised Report  
Pace Project No.: 92624373

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92624373003	B-100				
92624373004	B-62				
92624373003	B-100	EPA 3010A	724698	EPA 6010D	724853
92624373004	B-62	EPA 3010A	724698	EPA 6010D	724853
92624373003	B-100	EPA 3005A	724800	EPA 6020B	724886
92624373004	B-62	EPA 3005A	724800	EPA 6020B	724886
92624373003	B-100	EPA 7470A	724426	EPA 7470A	725130
92624373004	B-62	EPA 7470A	724426	EPA 7470A	725130
92624373003	B-100	SM 2540C-2015	722886		
92624373004	B-62	SM 2540C-2015	722886		
92624373003	B-100	SM 2320B-2011	723206		
92624373004	B-62	SM 2320B-2011	723206		
92624373003	B-100	EPA 300.0 Rev 2.1 1993	722843		
92624373004	B-62	EPA 300.0 Rev 2.1 1993	722843		

### 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:  
*Georgica Power*

Project #:

**WO#: 92624373**  
  
 92624373

Courier:  
 Commercial  Fed Ex  Pace  UPS  USPS  Client  Other:

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: *9/9/22 JM*

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

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

Biological Tissue Frozen?  Yes  No  N/A

Cooler Temp: *2.4* 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): *2.4*

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 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? -Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <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>WJ</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: \_\_\_\_\_



DC#\_Title: ENV-FRM-HUN1-0083 v01\_Sample Condition Upon Receipt

Effective Date: 05/12/2022

**WO# : 92624373**

PM: NMG

Due Date: 11/12/22

CLIENT: GA-GA Power

\*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 2N 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)			
1		2	1																											
2		2	1																											
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 DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.





November 10, 2022

Andrea McClure  
WSP/Golder  
5170 Peachtree Road  
Building 100, Suite 300  
Atlanta, GA 30341

RE: Project: McDonough AP1,2,3/4 ASSESS RAD-Revised Report  
Pace Project No.: 92624383

Dear Andrea McClure:

Enclosed are the analytical results for sample(s) received by the laboratory on September 09, 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

Revision 2: Issued on 11/10/22 to update Project Name.

Revision 1: Issued on 11/4/22 to include Radium QC Sheets and to update the samples included in this report.

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: Joju Abraham, Georgia Power-CCR  
Stephen Benda, Southern Company  
Noelia Gangi, Georgia Power  
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.  
Michael Smilley, Georgia Power  
Yong Cheng Soo, WSP/Golder



## REPORT OF LABORATORY ANALYSIS

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November 10, 2022  
Page 2

cc: Tina Sullivan, ERM



## **REPORT OF LABORATORY ANALYSIS**

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## CERTIFICATIONS

Project: McDonough AP1,2,3/4 ASSESS RAD-Revised Report  
Pace Project No.: 92624383

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### **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 AP1,2,3/4 ASSESS RAD-Revised Report  
Pace Project No.: 92624383

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Lab ID	Sample ID	Matrix	Date Collected	Date Received
92624383003	B-100	Water	09/08/22 11:05	09/09/22 15:50
92624383004	B-62	Water	09/09/22 11:25	09/09/22 15:50

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: McDonough AP1,2,3/4 ASSESS RAD-Revised Report

Pace Project No.: 92624383

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92624383003	B-100	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92624383004	B-62	EPA 9315	RMS	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 AP1,2,3/4 ASSESS RAD-Revised Report

Pace Project No.: 92624383

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: B-100</b> <b>Lab ID: 92624383003</b> Collected: 09/08/22 11:05      Received: 09/09/22 15:50      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.114 ± 0.0896 (0.141)</b> <b>C:89% T:NA</b>	pCi/L	10/02/22 10:26	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.529 ± 0.360 (0.681)</b> <b>C:70% T:87%</b>	pCi/L	09/28/22 12:21	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.643 ± 0.450 (0.822)</b>	pCi/L	10/03/22 12:21	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP1,2,3/4 ASSESS RAD-Revised Report

Pace Project No.: 92624383

**Sample: B-62**      **Lab ID: 92624383004**      Collected: 09/09/22 11:25      Received: 09/09/22 15:50      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	<b>0.627 ± 0.205 (0.135)</b> <b>C:86% T:NA</b>	pCi/L	10/02/22 10:26	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>1.33 ± 0.510 (0.781)</b> <b>C:71% T:88%</b>	pCi/L	09/28/22 12:21	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.96 ± 0.715 (0.916)</b>	pCi/L	10/03/22 12:21	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: McDonough AP1,2,3/4 ASSESS RAD-Revised Report

Pace Project No.: 92624383

QC Batch: 532087

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples:

METHOD BLANK: 2581306

Matrix: Water

Associated Lab Samples:

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.122 ± 0.122 (0.241) C:95% T:NA	pCi/L	09/27/22 08:34	

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 AP1,2,3/4 ASSESS RAD-Revised Report

Pace Project No.: 92624383

QC Batch: 533110

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92624383003, 92624383004

METHOD BLANK: 2586601

Matrix: Water

Associated Lab Samples: 92624383003, 92624383004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.00759 ± 0.0468 (0.133) C:88% T:NA	pCi/L	10/02/22 10:24	

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 AP1,2,3/4 ASSESS RAD-Revised Report

Pace Project No.: 92624383

QC Batch: 532089

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples:

METHOD BLANK: 2581322

Matrix: Water

Associated Lab Samples:

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.391 ± 0.413 (0.858) C:74% T:78%	pCi/L	09/23/22 16:00	

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 AP1,2,3/4 ASSESS RAD-Revised Report

Pace Project No.: 92624383

QC Batch:	533111	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92624383003, 92624383004

METHOD BLANK:	2586603	Matrix:	Water
---------------	---------	---------	-------

Associated Lab Samples: 92624383003, 92624383004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.798 ± 0.368 (0.604) C:81% T:85%	pCi/L	09/28/22 11:36	

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 AP1,2,3/4 ASSESS RAD-Revised Report  
Pace Project No.: 92624383

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### 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 AP1,2,3/4 ASSESS RAD-Revised Report

Pace Project No.: 92624383

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92624383003	B-100	EPA 9315	533110		
92624383004	B-62	EPA 9315	533110		
92624383003	B-100	EPA 9320	533111		
92624383004	B-62	EPA 9320	533111		
92624383003	B-100	Total Radium Calculation	536982		
92624383004	B-62	Total Radium Calculation	536982		

### 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#: 92624383**



Courier:  
 Commercial  Fed Ex  Pace  UPS  USPS  Other:  Client

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: *9/9/22*

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

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

Biological Tissue Frozen?  Yes  No  N/A *JM*

Cooler Temp: *2.4* 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): *2.4*

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 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? -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>WJ</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

CLIENT NOTIFICATION/RESOLUTION

Lot ID of split containers:

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

WO#: 92624383

PM: NMG

Due Date: 09/29/22

CLIENT: GA-GA Power

\*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)	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 - ab)	SP2T-250 mL Sterile Plastic (N/A - ab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG6U-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																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

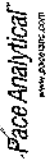
Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR 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: RMS  
Date: 9/20/2022  
Worklist: 68887  
Matrix: DW

Method Blank Assessment	
MB Sample ID	25866801
MB Concentration:	0.008
MB Counting Uncertainty:	0.047
MB MDC:	0.133
MB Numerical Performance Indicator:	0.32
MB Status vs Numerical Indicator:	N/A
MB Status vs MDC:	Pass

Laboratory Control Sample Assessment		LCS(D, Y or N)?	N
Count Date:		LCS68887	LCS068887
Spike I.D.:		10/2/2022	
Decay Corrected Spike Concentration (pCi/mL):		19.033	
Volume Used (mL):		24.023	
Aliquot Volume (L, g, F):		0.505	
Target Conc. (pCi/L, g, F):		4.760	
Uncertainty (Calculated):		0.057	
Result (pCi/L, g, F):		3.993	
LCS/LCSD Counting Uncertainty (pCi/L, g, F):		0.431	
Numerical Performance Indicator:		-3.46	
Percent Recovery:		83.89%	
Status vs Numerical Indicator:		N/A	
Status vs Recovery:		Pass	
Upper % Recovery Limits:		125%	
Lower % Recovery Limits:		75%	

Duplicate Sample Assessment		Sample I.D.	92624832001
Duplicate Sample I.D.:		92624832001	92624832002
Duplicate Result (pCi/L, g, F):		0.124	0.124
Sample Result Counting Uncertainty (pCi/L, g, F):		0.091	0.091
Sample Duplicate Result (pCi/L, g, F):		0.071	0.187
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):		0.074	0.104
Are sample and/or duplicate results below RL?		See Below ##	See Below ##
Duplicate Numerical Performance Indicator:		0.874	-0.886
Duplicate RPD:		53.80%	40.32%
Duplicate Status vs Numerical Indicator:		N/A	N/A
Duplicate Status vs RPD:		Fail	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-processed due to unacceptable precision. N/A

LAM 10/3/22

M. 10/3/22

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):		
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
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):
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:

LAM 10/3/22

# Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow

Test: Ra-228  
Analyst: VAL  
Date: 9/14/2022  
Worklist: 68823  
Matrix: WT



**Method Blank Assessment**

MB Sample ID: 2591322  
 MB concentration: 0.391  
 MB 2 Sigma CSU: 0.413  
 MB MDC: 0.858  
 MB Numerical Performance Indicator: 1.86  
 MB Status vs Numerical Indicator: Pass  
 MB Status vs. MDC: Pass

**Laboratory Control Sample Assessment**

LCSID (Y or N)?	Y
LCS68823	9/23/2022
LCS68823	20-030
LCS68823	30.094
LCS68823	0.10
LCS68823	0.815
LCS68823	3.693
LCS68823	0.181
LCS68823	3.360
LCS68823	0.865
LCS68823	-0.74
LCS68823	90.98%
LCS68823	N/A
LCS68823	Pass
LCS68823	135%
LCS68823	60%

Count Date: 9/23/2022  
 Spike I.D.: 20-030  
 Decay Corrected Spike Concentration (pCi/mL): 30.094  
 Volume Used (mL): 0.10  
 Aliquot Volume (L, g, F): 0.812  
 Target Conc. (pCi/L, g, F): 3.707  
 Uncertainty (Calculated): 0.182  
 Result (pCi/L, g, F): 3.342  
 LCS/LCSD 2 Sigma CSU (pCi/L, g, F): 0.875  
 Numerical Performance Indicator: -0.80  
 Percent Recovery: 90.14%  
 Status vs Numerical Indicator: N/A  
 Status vs Recovery: Pass  
 Upper % Recovery Limits: 135%  
 Lower % Recovery Limits: 60%

**Duplicate Sample Assessment**

Sample I.D.: LCS68823  
 Duplicate Sample I.D.: LCS68823  
 Sample Result (pCi/L, g, F): 3.342  
 Sample Result 2 Sigma CSU (pCi/L, g, F): 0.875  
 Sample Duplicate Result (pCi/L, g, F): 3.360  
 Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F): 0.865  
 Are sample and/or duplicate results below RL? NO  
 Duplicate Numerical Performance Indicator: -0.030  
 Duplicate Status vs Numerical Indicator: 0.94%  
 Duplicate Status vs Recovery: Pass  
 Duplicate Status vs RPD: Pass  
 % RPD Limit: 36%

Enter Duplicate sample IDs if other than LCS/LCSD in the space below:

**Sample Matrix Spike Control Assessment**

Sample Collection Date: [Blank]  
 Sample I.D.: [Blank]  
 Sample MS I.D.: [Blank]  
 Sample MSD I.D.: [Blank]  
 Spike I.D.: [Blank]

MS/MSD 1

MS/MSD 2

MS/MSD Decay Corrected Spike Concentration (pCi/mL): [Blank]  
 Spike Volume Used in MS (mL): [Blank]  
 Spike Volume Used in MSD (mL): [Blank]  
 MS Aliquot (L, g, F): [Blank]  
 MS Target Conc. (pCi/L, g, F): [Blank]  
 MSD Aliquot (L, g, F): [Blank]  
 MSD Target Conc. (pCi/L, g, F): [Blank]  
 MS Spike Uncertainty (calculated): [Blank]  
 MSD Spike Uncertainty (calculated): [Blank]

Sample Result 2 Sigma CSU (pCi/L, g, F): [Blank]  
 Sample Matrix Spike Result: [Blank]  
 Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): [Blank]  
 Sample Matrix Spike Duplicate Result: [Blank]  
 Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): [Blank]  
 MS Numerical Performance Indicator: [Blank]  
 MSD Numerical Performance Indicator: [Blank]  
 MS Percent Recovery: [Blank]  
 MSD Percent Recovery: [Blank]  
 MS Status vs Numerical Indicator: [Blank]  
 MSD Status vs Numerical Indicator: [Blank]  
 MS Status vs Recovery: [Blank]  
 MSD Status vs Recovery: [Blank]  
 MS/MSD Upper % Recovery Limits: [Blank]  
 MS/MSD Lower % Recovery Limits: [Blank]

**Matrix Spike/Matrix Spike Duplicate Sample Assessment**

Sample I.D.: [Blank]  
 Sample MS I.D.: [Blank]  
 Sample MSD I.D.: [Blank]  
 Spike I.D.: [Blank]

Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): [Blank]  
 Sample Matrix Spike Duplicate Result: [Blank]  
 Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): [Blank]  
 Duplicate Numerical Performance Indicator: [Blank]  
 Duplicate Numerical Performance Indicator (Based on the Percent Recoveries) MS/MSD Duplicate RPD: [Blank]  
 MS/MSD Duplicate Status vs Numerical Indicator: [Blank]  
 MS/MSD Duplicate Status vs RPD: [Blank]  
 % RPD Limit: [Blank]

# Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

*Handwritten signature and initials*

# Quality Control Sample Performance Assessment

Analyst *Must Manually Enter All Fields Highlighted in Yellow*

Test: Ra-228  
Analyst: VAL  
Date: 9/19/2022  
Worklist: 68888  
Matrix: WT



**Method Blank Assessment**

MB Sample ID: 2566603  
 MB concentration: 0.798  
 MB 2 Sigma CSU: 0.368  
 MB MDC: 0.604  
 MB Numerical Performance Indicator: 4.25  
 MB Status vs Numerical Indicator: Fail\*  
 MB Status vs MDC: See Comment\*\*

Laboratory Control Sample Assessment	
LCSID, Y or N?	Y
LCSID68888	9/28/2022
Count Date:	22-029
Spike I.D.:	19.913
Decay Corrected Spike Concentration (pCi/mL):	0.20
Volume Used (mL):	0.808
Aliquot Volume (L, g, F):	4.827
Target Conc. (pCi/L, g, F):	0.355
Uncertainty (Calculated):	5.197
Result (pCi/L, g, F):	1.158
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.05
Numerical Performance Indicator:	114.19%
Percent Recovery:	N/A
Status vs Numerical Indicator:	Pass
Upper % Recovery Limits:	135%
Lower % Recovery Limits:	60%

Duplicate Sample Assessment	
LCSID68888	9/28/2022
Sample I.D.:	5.626
Duplicate Sample I.D.:	1.255
Sample Result (pCi/L, g, F):	5.197
Sample Duplicate Result (pCi/L, g, F):	1.158
Sample Result 2 Sigma CSU (pCi/L, g, F):	NO
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.493
Are sample and/or duplicate results below RL?:	7.89%
Duplicate Numerical Performance Indicator:	Pass
Duplicate Percent Recoveries:	Pass
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	36%
% RPD Limit:	

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): MS Target Conc. (pCi/L, g, F): MS Spike Uncertainty (calculated): MS 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: 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: 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:

# 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.

*Amabak*

November 10, 2022

Andrea McClure  
WSP/Golder  
5170 Peachtree Road  
Building 100, Suite 300  
Atlanta, GA 30341

RE: Project: McDonough AP-2-3/4 Detection-Revised Report  
Pace Project No.: 92625623

Dear Andrea McClure:

Enclosed are the analytical results for sample(s) received by the laboratory between September 14, 2022 and September 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

Revision 1: Issued on 10/5/22 to include a revised COC, and update a sample ID.

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: Joju Abraham, Georgia Power-CCR  
Stephen Benda, Southern Company  
Noelia Gangi, Georgia Power  
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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November 10, 2022

Page 2

cc: Michael Smilley, Georgia Power  
Yong Cheng Soo, WSP/Golder  
Tina Sullivan, ERM



## **REPORT OF LABORATORY ANALYSIS**

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## CERTIFICATIONS

Project: McDonough AP-2-3/4 Detection-Revised Report  
Pace Project No.: 92625623

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### **Pace Analytical Services Charlotte**

South Carolina Laboratory ID: 99006	South Carolina Certification #: 99006001
9800 Kinsey Ave. Ste 100, Huntersville, NC 28078	South Carolina Drinking Water Cert. #: 99006003
North Carolina Drinking Water Certification #: 37706	Florida/NELAP Certification #: E87627
North Carolina Field Services Certification #: 5342	Kentucky UST Certification #: 84
North Carolina Wastewater Certification #: 12	Louisiana DoH Drinking Water #: LA029
South Carolina Laboratory ID: 99006	Virginia/VELAP Certification #: 460221

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### **Pace Analytical Services Asheville**

2225 Riverside Drive, Asheville, NC 28804	South Carolina Laboratory ID: 99030
Florida/NELAP Certification #: E87648	South Carolina Certification #: 99030001
North Carolina Drinking Water Certification #: 37712	Virginia/VELAP Certification #: 460222
North Carolina Wastewater Certification #: 40	

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### **Pace Analytical Services Peachtree Corners**

110 Technology Pkwy, Peachtree Corners, GA 30092	North Carolina Certification #: 381
Florida DOH Certification #: E87315	South Carolina Certification #: 98011001
Georgia DW Inorganics Certification #: 812	

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## REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: McDonough AP-2-3/4 Detection-Revised Report

Pace Project No.: 92625623

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92625623001	DGWC-14	Water	09/13/22 16:11	09/14/22 09:53
92625623002	DGWC-15	Water	09/13/22 16:00	09/14/22 09:53
92625623003	DGWC-42	Water	09/13/22 10:00	09/14/22 09:53
92625623004	DGWC-47	Water	09/13/22 16:05	09/14/22 09:53
92625623005	DGWC-48	Water	09/13/22 12:05	09/14/22 09:53
92625623006	EB-3	Water	09/13/22 12:05	09/14/22 09:53
92625623007	FB-4	Water	09/13/22 10:00	09/14/22 09:53
92625623008	DGWC-5	Water	09/14/22 13:25	09/15/22 08:20
92625623009	DGWC-17	Water	09/14/22 14:40	09/15/22 08:20
92625623010	DGWC-19	Water	09/14/22 12:00	09/15/22 08:20
92625623011	DUP-5	Water	09/14/22 00:00	09/15/22 08:20
92625623015	DGWC-8	Water	09/15/22 13:18	09/16/22 16:30
92625623016	DGWC-10	Water	09/15/22 10:25	09/16/22 16:30
92625623017	DGWC-11	Water	09/15/22 13:45	09/16/22 16:30
92625623018	DGWC-12	Water	09/15/22 15:20	09/16/22 16:30
92625623019	DGWC-13	Water	09/15/22 09:35	09/16/22 16:30
92625623020	DGWC-20	Water	09/15/22 11:45	09/16/22 16:30
92625623021	DGWC-21	Water	09/15/22 16:10	09/16/22 16:30
92625623022	EB-5	Water	09/15/22 11:45	09/16/22 16:30
92626314001	DGWC-22	Water	09/16/22 12:01	09/16/22 16:30
92626314002	DGWC-4	Water	09/19/22 13:26	09/20/22 09:50
92626314003	DGWC-9	Water	09/19/22 11:49	09/20/22 09:50
92626314004	DUP-6	Water	09/19/22 00:00	09/20/22 09:50
92626314005	DGWC-2	Water	09/20/22 13:16	09/21/22 15:05
92626314006	DGWC-23	Water	09/20/22 10:42	09/21/22 15:05

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: McDonough AP-2-3/4 Detection-Revised Report

Pace Project No.: 92625623

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92625623001	DGWC-14	EPA 6010D	KH	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92625623002	DGWC-15	EPA 6010D	KH	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92625623003	DGWC-42	EPA 6010D	KH	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92625623004	DGWC-47	EPA 6010D	KH	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92625623005	DGWC-48	EPA 6010D	KH	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92625623006	EB-3	EPA 6010D	KH	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92625623007	FB-4	EPA 6010D	KH	5

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### SAMPLE ANALYTE COUNT

Project: McDonough AP-2-3/4 Detection-Revised Report

Pace Project No.: 92625623

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92625623008	DGWC-5	EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
92625623009	DGWC-17	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
92625623010	DGWC-19	SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	5
92625623011	DUP-5	EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
92625623015	DGWC-8	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
92625623016	DGWC-10	SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	5
		EPA 6020B	CW1	13

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: McDonough AP-2-3/4 Detection-Revised Report  
Pace Project No.: 92625623

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92625623017	DGWC-11	EPA 6010D	KH	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92625623018	DGWC-12	EPA 6010D	KH	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92625623019	DGWC-13	EPA 6010D	KH	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92625623020	DGWC-20	EPA 6010D	KH	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92625623021	DGWC-21	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92625623022	EB-5	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1

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### SAMPLE ANALYTE COUNT

Project: McDonough AP-2-3/4 Detection-Revised Report  
Pace Project No.: 92625623

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92626314001	DGWC-22	SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
92626314002	DGWC-4	SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB, KH	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2011	MAB2	1
92626314003	DGWC-9	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2011	MAB2	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92626314004	DUP-6	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2011	MAB2	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	5
92626314005	DGWC-2	EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2011	MAB2	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	5
		EPA 6020B	CW1	13
92626314006	DGWC-23	EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		EPA 6010D	KH	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1

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### SAMPLE ANALYTE COUNT

Project: McDonough AP-2-3/4 Detection-Revised Report

Pace Project No.: 92625623

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		SM 2540C-2011	MAB2	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 Detection-Revised Report  
Pace Project No.: 92625623

Sample: DGWC-14		Lab ID: 92625623001		Collected: 09/13/22 16:11		Received: 09/14/22 09:53		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		09/14/22 14:49		
pH	<b>5.71</b>	Std. Units			1		09/14/22 14:49		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	<b>0.040</b>	mg/L	0.040	0.025	1	09/26/22 14:09	09/26/22 20:48	7439-89-6	
Potassium	<b>3.2</b>	mg/L	0.20	0.15	1	09/26/22 14:09	09/26/22 20:48	7440-09-7	
Sodium	<b>7.0</b>	mg/L	1.0	0.58	1	09/26/22 14:09	09/26/22 20:48	7440-23-5	M1
Calcium	<b>11.2</b>	mg/L	1.0	0.12	1	09/26/22 14:09	09/26/22 20:48	7440-70-2	M1
Magnesium	<b>4.7</b>	mg/L	0.050	0.012	1	09/26/22 14:09	09/26/22 20:48	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/26/22 09:44	09/26/22 22:08	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/26/22 09:44	09/26/22 22:08	7440-38-2	
Barium	<b>0.063</b>	mg/L	0.0050	0.00067	1	09/26/22 09:44	09/26/22 22:08	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/26/22 09:44	09/26/22 22:08	7440-41-7	
Boron	<b>0.091</b>	mg/L	0.040	0.0086	1	09/26/22 09:44	09/26/22 22:08	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/26/22 09:44	09/26/22 22:08	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/26/22 09:44	09/26/22 22:08	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/26/22 09:44	09/26/22 22:08	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/26/22 09:44	09/26/22 22:08	7439-92-1	
Lithium	<b>0.0043J</b>	mg/L	0.030	0.00073	1	09/26/22 09:44	09/26/22 22:08	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/26/22 09:44	09/26/22 22:08	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/26/22 09:44	09/26/22 22:08	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/26/22 09:44	09/26/22 22:08	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/27/22 07:45	09/27/22 11:32	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>80.0</b>	mg/L	25.0	10.0	1		09/16/22 14:35		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	<b>15.2</b>	mg/L	5.0	5.0	1		09/20/22 14:34		
Alkalinity, Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	5.0	1		09/20/22 14:34		
Alkalinity, Total as CaCO <sub>3</sub>	<b>15.2</b>	mg/L	5.0	5.0	1		09/20/22 14:34		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>3.5</b>	mg/L	1.0	0.60	1		09/17/22 22:27	16887-00-6	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report

Pace Project No.: 92625623

Sample: DGWC-14		Lab ID: 92625623001		Collected: 09/13/22 16:11	Received: 09/14/22 09:53	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Fluoride	<b>0.059J</b>	mg/L	0.10	0.050	1		09/17/22 22:27	16984-48-8	
Sulfate	<b>41.2</b>	mg/L	1.0	0.50	1		09/17/22 22:27	14808-79-8	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report  
Pace Project No.: 92625623

Sample: DGWC-15		Lab ID: 92625623002		Collected: 09/13/22 16:00		Received: 09/14/22 09:53		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		09/14/22 14:49		
pH	<b>5.82</b>	Std. Units			1		09/14/22 14:49		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	<b>0.13</b>	mg/L	0.040	0.025	1	09/26/22 14:09	09/26/22 21:17	7439-89-6	
Potassium	<b>4.4</b>	mg/L	0.20	0.15	1	09/26/22 14:09	09/26/22 21:17	7440-09-7	
Sodium	<b>21.5</b>	mg/L	1.0	0.58	1	09/26/22 14:09	09/26/22 21:17	7440-23-5	
Calcium	<b>34.4</b>	mg/L	1.0	0.12	1	09/26/22 14:09	09/26/22 21:17	7440-70-2	
Magnesium	<b>14.9</b>	mg/L	0.050	0.012	1	09/26/22 14:09	09/26/22 21:17	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/26/22 09:44	09/26/22 22:14	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/26/22 09:44	09/26/22 22:14	7440-38-2	
Barium	<b>0.042</b>	mg/L	0.0050	0.00067	1	09/26/22 09:44	09/26/22 22:14	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/26/22 09:44	09/26/22 22:14	7440-41-7	
Boron	<b>1.5</b>	mg/L	0.040	0.0086	1	09/26/22 09:44	09/26/22 22:14	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/26/22 09:44	09/26/22 22:14	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/26/22 09:44	09/26/22 22:14	7440-47-3	
Cobalt	<b>0.0016J</b>	mg/L	0.0050	0.00039	1	09/26/22 09:44	09/26/22 22:14	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/26/22 09:44	09/26/22 22:14	7439-92-1	
Lithium	<b>0.0057J</b>	mg/L	0.030	0.00073	1	09/26/22 09:44	09/26/22 22:14	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/26/22 09:44	09/26/22 22:14	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/26/22 09:44	09/26/22 22:14	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/26/22 09:44	09/26/22 22:14	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/27/22 07:45	09/27/22 11:34	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>289</b>	mg/L	25.0	10.0	1		09/16/22 14:35		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	<b>17.3</b>	mg/L	5.0	5.0	1		09/20/22 14:39		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 14:39		
Alkalinity, Total as CaCO3	<b>17.3</b>	mg/L	5.0	5.0	1		09/20/22 14:39		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>21.9</b>	mg/L	1.0	0.60	1		09/17/22 22:42	16887-00-6	

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### ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report

Pace Project No.: 92625623

Sample: DGWC-15		Lab ID: 92625623002		Collected: 09/13/22 16:00	Received: 09/14/22 09:53	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Fluoride	<b>0.065J</b>	mg/L	0.10	0.050	1		09/17/22 22:42	16984-48-8	
Sulfate	<b>145</b>	mg/L	3.0	1.5	3		09/20/22 20:01	14808-79-8	

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## ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report  
Pace Project No.: 92625623

Sample: DGWC-42		Lab ID: 92625623003		Collected: 09/13/22 10:00		Received: 09/14/22 09:53		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		09/14/22 14:50		
pH	<b>5.04</b>	Std. Units			1		09/14/22 14:50		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	<b>0.15</b>	mg/L	0.040	0.025	1	09/26/22 14:09	09/26/22 21:22	7439-89-6	
Potassium	<b>5.3</b>	mg/L	0.20	0.15	1	09/26/22 14:09	09/26/22 21:22	7440-09-7	
Sodium	<b>78.3</b>	mg/L	1.0	0.58	1	09/26/22 14:09	09/26/22 21:22	7440-23-5	
Calcium	<b>34.2</b>	mg/L	1.0	0.12	1	09/26/22 14:09	09/26/22 21:22	7440-70-2	
Magnesium	<b>25.0</b>	mg/L	0.050	0.012	1	09/26/22 14:09	09/26/22 21:22	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/26/22 09:44	09/26/22 22:20	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/26/22 09:44	09/26/22 22:20	7440-38-2	
Barium	<b>0.016</b>	mg/L	0.0050	0.00067	1	09/26/22 09:44	09/26/22 22:20	7440-39-3	
Beryllium	<b>0.0028</b>	mg/L	0.00050	0.000054	1	09/26/22 09:44	09/26/22 22:20	7440-41-7	
Boron	<b>1.1</b>	mg/L	0.040	0.0086	1	09/26/22 09:44	09/26/22 22:20	7440-42-8	
Cadmium	<b>0.00069</b>	mg/L	0.00050	0.00011	1	09/26/22 09:44	09/26/22 22:20	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/26/22 09:44	09/26/22 22:20	7440-47-3	
Cobalt	<b>0.0069</b>	mg/L	0.0050	0.00039	1	09/26/22 09:44	09/26/22 22:20	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/26/22 09:44	09/26/22 22:20	7439-92-1	
Lithium	<b>0.0091J</b>	mg/L	0.030	0.00073	1	09/26/22 09:44	09/26/22 22:20	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/26/22 09:44	09/26/22 22:20	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/26/22 09:44	09/26/22 22:20	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/26/22 09:44	09/26/22 22:20	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/27/22 07:45	09/27/22 11:37	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>540</b>	mg/L	50.0	20.0	1		09/16/22 14:35		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	<b>6.4</b>	mg/L	5.0	5.0	1		09/20/22 14:45		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 14:45		
Alkalinity, Total as CaCO3	<b>6.4</b>	mg/L	5.0	5.0	1		09/20/22 14:45		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>18.7</b>	mg/L	1.0	0.60	1		09/17/22 22:57	16887-00-6	

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### ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report

Pace Project No.: 92625623

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**Sample: DGWC-42**      **Lab ID: 92625623003**      Collected: 09/13/22 10:00      Received: 09/14/22 09:53      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		09/17/22 22:57	16984-48-8	
Sulfate	<b>326</b>	mg/L	6.0	3.0	6		09/20/22 20:16	14808-79-8	

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## ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report  
Pace Project No.: 92625623

Sample: DGWC-47		Lab ID: 92625623004		Collected: 09/13/22 16:05		Received: 09/14/22 09:53		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		09/14/22 14:50		
pH	<b>4.15</b>	Std. Units			1		09/14/22 14:50		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	<b>3.6</b>	mg/L	0.040	0.025	1	09/26/22 14:09	09/26/22 21:26	7439-89-6	
Potassium	<b>5.4</b>	mg/L	0.20	0.15	1	09/26/22 14:09	09/26/22 21:26	7440-09-7	
Sodium	<b>7.8</b>	mg/L	1.0	0.58	1	09/26/22 14:09	09/26/22 21:26	7440-23-5	
Calcium	<b>24.8</b>	mg/L	1.0	0.12	1	09/26/22 14:09	09/26/22 21:26	7440-70-2	
Magnesium	<b>7.3</b>	mg/L	0.050	0.012	1	09/26/22 14:09	09/26/22 21:26	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/26/22 09:44	09/26/22 22:26	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/26/22 09:44	09/26/22 22:26	7440-38-2	
Barium	<b>0.022</b>	mg/L	0.0050	0.00067	1	09/26/22 09:44	09/26/22 22:26	7440-39-3	
Beryllium	<b>0.0094</b>	mg/L	0.00050	0.000054	1	09/26/22 09:44	09/26/22 22:26	7440-41-7	
Boron	<b>0.18</b>	mg/L	0.040	0.0086	1	09/26/22 09:44	09/26/22 22:26	7440-42-8	
Cadmium	<b>0.0011</b>	mg/L	0.00050	0.00011	1	09/26/22 09:44	09/26/22 22:26	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/26/22 09:44	09/26/22 22:26	7440-47-3	
Cobalt	<b>0.21</b>	mg/L	0.0050	0.00039	1	09/26/22 09:44	09/26/22 22:26	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/26/22 09:44	09/26/22 22:26	7439-92-1	
Lithium	<b>0.050</b>	mg/L	0.030	0.00073	1	09/26/22 09:44	09/27/22 13:16	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/26/22 09:44	09/26/22 22:26	7439-98-7	
Selenium	<b>0.0031J</b>	mg/L	0.0050	0.0014	1	09/26/22 09:44	09/26/22 22:26	7782-49-2	
Thallium	<b>0.00021J</b>	mg/L	0.0010	0.00018	1	09/26/22 09:44	09/26/22 22:26	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/27/22 07:45	09/27/22 11:40	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>277</b>	mg/L	25.0	10.0	1		09/16/22 14:35		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 14:50		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 14:50		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/20/22 14:50		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>3.3</b>	mg/L	1.0	0.60	1		09/17/22 23:12	16887-00-6	

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## ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report

Pace Project No.: 92625623

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**Sample: DGWC-47**      **Lab ID: 92625623004**      Collected: 09/13/22 16:05      Received: 09/14/22 09:53      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	<b>0.47</b>	mg/L	0.10	0.050	1		09/17/22 23:12	16984-48-8	
Sulfate	<b>150</b>	mg/L	3.0	1.5	3		09/20/22 20:30	14808-79-8	

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## ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report  
Pace Project No.: 92625623

Sample: DGWC-48		Lab ID: 92625623005		Collected: 09/13/22 12:05		Received: 09/14/22 09:53		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		09/14/22 14:50		
pH	<b>4.25</b>	Std. Units			1		09/14/22 14:50		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	<b>4.1</b>	mg/L	0.040	0.025	1	09/26/22 14:09	09/26/22 21:31	7439-89-6	
Potassium	<b>14.0</b>	mg/L	0.20	0.15	1	09/26/22 14:09	09/26/22 21:31	7440-09-7	
Sodium	<b>21.7</b>	mg/L	1.0	0.58	1	09/26/22 14:09	09/26/22 21:31	7440-23-5	
Calcium	<b>65.3</b>	mg/L	1.0	0.12	1	09/26/22 14:09	09/26/22 21:31	7440-70-2	
Magnesium	<b>15.1</b>	mg/L	0.050	0.012	1	09/26/22 14:09	09/26/22 21:31	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/26/22 09:44	09/26/22 22:32	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/26/22 09:44	09/26/22 22:32	7440-38-2	
Barium	<b>0.014</b>	mg/L	0.0050	0.00067	1	09/26/22 09:44	09/26/22 22:32	7440-39-3	
Beryllium	<b>0.0071</b>	mg/L	0.00050	0.000054	1	09/26/22 09:44	09/26/22 22:32	7440-41-7	
Boron	<b>0.61</b>	mg/L	0.040	0.0086	1	09/26/22 09:44	09/26/22 22:32	7440-42-8	
Cadmium	<b>0.0026</b>	mg/L	0.00050	0.00011	1	09/26/22 09:44	09/26/22 22:32	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/26/22 09:44	09/26/22 22:32	7440-47-3	
Cobalt	<b>0.31</b>	mg/L	0.0050	0.00039	1	09/26/22 09:44	09/26/22 22:32	7440-48-4	
Lead	<b>0.00093J</b>	mg/L	0.0010	0.00089	1	09/26/22 09:44	09/26/22 22:32	7439-92-1	
Lithium	<b>0.099</b>	mg/L	0.030	0.00073	1	09/26/22 09:44	09/27/22 13:22	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/26/22 09:44	09/26/22 22:32	7439-98-7	
Selenium	<b>0.0019J</b>	mg/L	0.0050	0.0014	1	09/26/22 09:44	09/26/22 22:32	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/26/22 09:44	09/26/22 22:32	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/27/22 07:45	09/27/22 11:42	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>527</b>	mg/L	25.0	10.0	1		09/16/22 14:38		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 14:52		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 14:52		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/20/22 14:52		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>8.9</b>	mg/L	1.0	0.60	1		09/17/22 23:27	16887-00-6	

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### ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report

Pace Project No.: 92625623

Sample: DGWC-48		Lab ID: 92625623005		Collected: 09/13/22 12:05	Received: 09/14/22 09:53	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Fluoride	<b>0.43</b>	mg/L	0.10	0.050	1		09/17/22 23:27	16984-48-8	
Sulfate	<b>309</b>	mg/L	12.0	6.0	12		09/20/22 21:30	14808-79-8	

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## ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report  
Pace Project No.: 92625623

Sample: EB-3		Lab ID: 92625623006		Collected: 09/13/22 12:05	Received: 09/14/22 09:53	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
<b>6010D ATL ICP</b>		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/26/22 14:09	09/26/22 21:36	7439-89-6		
Potassium	ND	mg/L	0.20	0.15	1	09/26/22 14:09	09/26/22 21:36	7440-09-7		
Sodium	ND	mg/L	1.0	0.58	1	09/26/22 14:09	09/26/22 21:36	7440-23-5		
Calcium	ND	mg/L	1.0	0.12	1	09/26/22 14:09	09/26/22 21:36	7440-70-2		
Magnesium	ND	mg/L	0.050	0.012	1	09/26/22 14:09	09/26/22 21:36	7439-95-4		
<b>6020 MET ICPMS</b>		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/26/22 09:44	09/26/22 22:38	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.0022	1	09/26/22 09:44	09/26/22 22:38	7440-38-2		
Barium	<b>0.0025J</b>	mg/L	0.0050	0.00067	1	09/26/22 09:44	09/26/22 22:38	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000054	1	09/26/22 09:44	09/26/22 22:38	7440-41-7		
Boron	ND	mg/L	0.040	0.0086	1	09/26/22 09:44	09/26/22 22:38	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00011	1	09/26/22 09:44	09/26/22 22:38	7440-43-9		
Chromium	ND	mg/L	0.0050	0.0011	1	09/26/22 09:44	09/26/22 22:38	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00039	1	09/26/22 09:44	09/26/22 22:38	7440-48-4		
Lead	ND	mg/L	0.0010	0.00089	1	09/26/22 09:44	09/26/22 22:38	7439-92-1		
Lithium	ND	mg/L	0.030	0.00073	1	09/26/22 09:44	09/26/22 22:38	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00074	1	09/26/22 09:44	09/26/22 22:38	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0014	1	09/26/22 09:44	09/26/22 22:38	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00018	1	09/26/22 09:44	09/26/22 22:38	7440-28-0		
<b>7470 Mercury</b>		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/27/22 07:45	09/27/22 11:45	7439-97-6		
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	10.0	1		09/16/22 14:38			
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 15:23			
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 15:23			
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/20/22 15:23			
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		09/17/22 23:42	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		09/17/22 23:42	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		09/17/22 23:42	14808-79-8		

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## ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report  
Pace Project No.: 92625623

Sample: FB-4		Lab ID: 92625623007		Collected: 09/13/22 10:00	Received: 09/14/22 09:53	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
<b>6010D ATL ICP</b>		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/26/22 14:09	09/26/22 21:41	7439-89-6		
Potassium	ND	mg/L	0.20	0.15	1	09/26/22 14:09	09/26/22 21:41	7440-09-7		
Sodium	ND	mg/L	1.0	0.58	1	09/26/22 14:09	09/26/22 21:41	7440-23-5		
Calcium	ND	mg/L	1.0	0.12	1	09/26/22 14:09	09/26/22 21:41	7440-70-2		
Magnesium	ND	mg/L	0.050	0.012	1	09/26/22 14:09	09/26/22 21:41	7439-95-4		
<b>6020 MET ICPMS</b>		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/26/22 09:44	09/26/22 22:44	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.0022	1	09/26/22 09:44	09/26/22 22:44	7440-38-2		
Barium	<b>0.0024J</b>	mg/L	0.0050	0.00067	1	09/26/22 09:44	09/26/22 22:44	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000054	1	09/26/22 09:44	09/26/22 22:44	7440-41-7		
Boron	ND	mg/L	0.040	0.0086	1	09/26/22 09:44	09/26/22 22:44	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00011	1	09/26/22 09:44	09/26/22 22:44	7440-43-9		
Chromium	ND	mg/L	0.0050	0.0011	1	09/26/22 09:44	09/26/22 22:44	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00039	1	09/26/22 09:44	09/26/22 22:44	7440-48-4		
Lead	ND	mg/L	0.0010	0.00089	1	09/26/22 09:44	09/26/22 22:44	7439-92-1		
Lithium	ND	mg/L	0.030	0.00073	1	09/26/22 09:44	09/26/22 22:44	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00074	1	09/26/22 09:44	09/26/22 22:44	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0014	1	09/26/22 09:44	09/26/22 22:44	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00018	1	09/26/22 09:44	09/26/22 22:44	7440-28-0		
<b>7470 Mercury</b>		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/27/22 07:45	09/27/22 11:47	7439-97-6		
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	10.0	1		09/16/22 14:38			
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 15:39			
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 15:39			
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/20/22 15:39			
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		09/20/22 14:48	16887-00-6	M1	
Fluoride	ND	mg/L	0.10	0.050	1		09/20/22 14:48	16984-48-8	M1	
Sulfate	ND	mg/L	1.0	0.50	1		09/20/22 14:48	14808-79-8	M1	

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## ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report  
Pace Project No.: 92625623

Sample: DGWC-5		Lab ID: 92625623008		Collected: 09/14/22 13:25		Received: 09/15/22 08:20		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		09/15/22 17:29		
pH	<b>4.75</b>	Std. Units			1		09/15/22 17:29		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	ND	mg/L	0.040	0.025	1	09/26/22 14:09	09/26/22 21:46	7439-89-6	
Potassium	<b>3.9</b>	mg/L	0.20	0.15	1	09/26/22 14:09	09/26/22 21:46	7440-09-7	
Sodium	<b>19.8</b>	mg/L	1.0	0.58	1	09/26/22 14:09	09/26/22 21:46	7440-23-5	
Calcium	<b>117</b>	mg/L	1.0	0.12	1	09/26/22 14:09	09/26/22 21:46	7440-70-2	
Magnesium	<b>24.5</b>	mg/L	0.050	0.012	1	09/26/22 14:09	09/26/22 21:46	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/26/22 09:44	09/26/22 23:14	7440-36-0	
Arsenic	<b>0.0038J</b>	mg/L	0.0050	0.0022	1	09/26/22 09:44	09/26/22 23:14	7440-38-2	
Barium	<b>0.018</b>	mg/L	0.0050	0.00067	1	09/26/22 09:44	09/26/22 23:14	7440-39-3	
Beryllium	<b>0.010</b>	mg/L	0.00050	0.000054	1	09/26/22 09:44	09/26/22 23:14	7440-41-7	
Boron	<b>5.0</b>	mg/L	0.040	0.0086	1	09/26/22 09:44	09/26/22 23:14	7440-42-8	
Cadmium	<b>0.00087</b>	mg/L	0.00050	0.00011	1	09/26/22 09:44	09/26/22 23:14	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/26/22 09:44	09/26/22 23:14	7440-47-3	
Cobalt	<b>0.027</b>	mg/L	0.0050	0.00039	1	09/26/22 09:44	09/26/22 23:14	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/26/22 09:44	09/26/22 23:14	7439-92-1	
Lithium	<b>0.0081J</b>	mg/L	0.030	0.00073	1	09/26/22 09:44	09/26/22 23:14	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/26/22 09:44	09/26/22 23:14	7439-98-7	
Selenium	<b>0.019</b>	mg/L	0.0050	0.0014	1	09/26/22 09:44	09/26/22 23:14	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/26/22 09:44	09/26/22 23:14	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	<b>0.00022</b>	mg/L	0.00020	0.00013	1	09/27/22 07:45	09/27/22 11:50	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>850</b>	mg/L	50.0	20.0	1		09/19/22 09:21		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	5.0	1		09/20/22 16:25		
Alkalinity, Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	5.0	1		09/20/22 16:25		
Alkalinity, Total as CaCO <sub>3</sub>	ND	mg/L	5.0	5.0	1		09/20/22 16:25		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>11.2</b>	mg/L	1.0	0.60	1		09/19/22 17:15	16887-00-6	

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### ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report

Pace Project No.: 92625623

**Sample: DGWC-5**      **Lab ID: 92625623008**      Collected: 09/14/22 13:25      Received: 09/15/22 08:20      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	<b>0.27</b>	mg/L	0.10	0.050	1		09/19/22 17:15	16984-48-8	
Sulfate	<b>505</b>	mg/L	10.0	5.0	10		09/19/22 22:39	14808-79-8	

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## ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report  
Pace Project No.: 92625623

Sample: DGWC-17		Lab ID: 92625623009		Collected: 09/14/22 14:40		Received: 09/15/22 08:20		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		09/15/22 17:30		
pH	<b>5.08</b>	Std. Units			1		09/15/22 17:30		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	ND	mg/L	0.040	0.025	1	09/26/22 14:09	09/26/22 22:00	7439-89-6	
Potassium	<b>3.7</b>	mg/L	0.20	0.15	1	09/26/22 14:09	09/26/22 22:00	7440-09-7	
Sodium	<b>17.5</b>	mg/L	1.0	0.58	1	09/26/22 14:09	09/26/22 22:00	7440-23-5	
Calcium	<b>16.4</b>	mg/L	1.0	0.12	1	09/26/22 14:09	09/26/22 22:00	7440-70-2	
Magnesium	<b>52.8</b>	mg/L	0.050	0.012	1	09/26/22 14:09	09/26/22 22:00	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/26/22 09:44	09/26/22 23:20	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/26/22 09:44	09/26/22 23:20	7440-38-2	
Barium	<b>0.031</b>	mg/L	0.0050	0.00067	1	09/26/22 09:44	09/26/22 23:20	7440-39-3	
Beryllium	<b>0.00058</b>	mg/L	0.00050	0.000054	1	09/26/22 09:44	09/26/22 23:20	7440-41-7	
Boron	<b>0.87</b>	mg/L	0.040	0.0086	1	09/26/22 09:44	09/26/22 23:20	7440-42-8	
Cadmium	<b>0.00024J</b>	mg/L	0.00050	0.00011	1	09/26/22 09:44	09/26/22 23:20	7440-43-9	
Chromium	<b>0.0023J</b>	mg/L	0.0050	0.0011	1	09/26/22 09:44	09/26/22 23:20	7440-47-3	
Cobalt	<b>0.016</b>	mg/L	0.0050	0.00039	1	09/26/22 09:44	09/26/22 23:20	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/26/22 09:44	09/26/22 23:20	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/26/22 09:44	09/26/22 23:20	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/26/22 09:44	09/26/22 23:20	7439-98-7	
Selenium	<b>0.0064</b>	mg/L	0.0050	0.0014	1	09/26/22 09:44	09/26/22 23:20	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/26/22 09:44	09/26/22 23:20	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/27/22 07:45	09/27/22 11:53	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>434</b>	mg/L	25.0	10.0	1		09/19/22 09:22		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	5.0	1		09/20/22 16:31		
Alkalinity, Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	5.0	1		09/20/22 16:31		
Alkalinity, Total as CaCO <sub>3</sub>	ND	mg/L	5.0	5.0	1		09/20/22 16:31		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>19.0</b>	mg/L	1.0	0.60	1		09/19/22 17:29	16887-00-6	

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### ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report

Pace Project No.: 92625623

**Sample: DGWC-17**      **Lab ID: 92625623009**      Collected: 09/14/22 14:40      Received: 09/15/22 08:20      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	<b>0.10</b>	mg/L	0.10	0.050	1		09/19/22 17:29	16984-48-8	
Sulfate	<b>268</b>	mg/L	5.0	2.5	5		09/19/22 22:54	14808-79-8	

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## ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report  
Pace Project No.: 92625623

Sample: DGWC-19		Lab ID: 92625623010		Collected: 09/14/22 12:00		Received: 09/15/22 08:20		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		09/15/22 17:30		
pH	<b>4.81</b>	Std. Units			1		09/15/22 17:30		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	<b>0.026J</b>	mg/L	0.040	0.025	1	09/26/22 14:09	09/26/22 22:05	7439-89-6	
Potassium	<b>4.1</b>	mg/L	0.20	0.15	1	09/26/22 14:09	09/26/22 22:05	7440-09-7	
Sodium	<b>38.9</b>	mg/L	1.0	0.58	1	09/26/22 14:09	09/26/22 22:05	7440-23-5	
Calcium	<b>105</b>	mg/L	1.0	0.12	1	09/26/22 14:09	09/26/22 22:05	7440-70-2	
Magnesium	<b>12.1</b>	mg/L	0.050	0.012	1	09/26/22 14:09	09/26/22 22:05	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/26/22 13:33	09/27/22 19:45	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/26/22 13:33	09/27/22 19:45	7440-38-2	
Barium	<b>0.027</b>	mg/L	0.0050	0.00067	1	09/26/22 13:33	09/27/22 19:45	7440-39-3	
Beryllium	<b>0.0018</b>	mg/L	0.00050	0.000054	1	09/26/22 13:33	09/27/22 19:45	7440-41-7	
Boron	<b>2.4</b>	mg/L	0.40	0.086	10	09/26/22 13:33	09/28/22 15:35	7440-42-8	
Cadmium	<b>0.00032J</b>	mg/L	0.00050	0.00011	1	09/26/22 13:33	09/27/22 19:45	7440-43-9	
Chromium	<b>0.0024J</b>	mg/L	0.0050	0.0011	1	09/26/22 13:33	09/27/22 19:45	7440-47-3	
Cobalt	<b>0.052</b>	mg/L	0.0050	0.00039	1	09/26/22 13:33	09/27/22 19:45	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/26/22 13:33	09/27/22 19:45	7439-92-1	
Lithium	<b>0.0032J</b>	mg/L	0.030	0.00073	1	09/26/22 13:33	09/27/22 19:45	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/26/22 13:33	09/27/22 19:45	7439-98-7	
Selenium	<b>0.0073</b>	mg/L	0.0050	0.0014	1	09/26/22 13:33	09/27/22 19:45	7782-49-2	
Thallium	<b>0.00056J</b>	mg/L	0.0010	0.00018	1	09/26/22 13:33	09/27/22 19:45	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/27/22 07:45	09/27/22 11:55	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>572</b>	mg/L	50.0	20.0	1		09/19/22 09:22		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	5.0	1		09/20/22 16:36		
Alkalinity, Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	5.0	1		09/20/22 16:36		
Alkalinity, Total as CaCO <sub>3</sub>	ND	mg/L	5.0	5.0	1		09/20/22 16:36		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>18.7</b>	mg/L	1.0	0.60	1		09/19/22 17:44	16887-00-6	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report

Pace Project No.: 92625623

Sample: DGWC-19		Lab ID: 92625623010		Collected: 09/14/22 12:00	Received: 09/15/22 08:20	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Fluoride	<b>0.18</b>	mg/L	0.10	0.050	1		09/19/22 17:44	16984-48-8	
Sulfate	<b>388</b>	mg/L	8.0	4.0	8		09/19/22 23:09	14808-79-8	

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## ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report  
Pace Project No.: 92625623

Sample: DUP-5		Lab ID: 92625623011		Collected: 09/14/22 00:00	Received: 09/15/22 08:20	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
<b>6010D ATL ICP</b>		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/26/22 14:09	09/26/22 22:10	7439-89-6		
Potassium	3.9	mg/L	0.20	0.15	1	09/26/22 14:09	09/26/22 22:10	7440-09-7		
Sodium	18.0	mg/L	1.0	0.58	1	09/26/22 14:09	09/26/22 22:10	7440-23-5		
Calcium	16.5	mg/L	1.0	0.12	1	09/26/22 14:09	09/26/22 22:10	7440-70-2		
Magnesium	53.2	mg/L	0.050	0.012	1	09/26/22 14:09	09/26/22 22:10	7439-95-4		
<b>6020 MET ICPMS</b>		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/26/22 13:33	09/27/22 19:51	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.0022	1	09/26/22 13:33	09/27/22 19:51	7440-38-2		
Barium	0.030	mg/L	0.0050	0.00067	1	09/26/22 13:33	09/27/22 19:51	7440-39-3		
Beryllium	0.00061	mg/L	0.00050	0.000054	1	09/26/22 13:33	09/27/22 19:51	7440-41-7		
Boron	0.82	mg/L	0.20	0.043	5	09/26/22 13:33	09/28/22 15:41	7440-42-8		
Cadmium	0.00023J	mg/L	0.00050	0.00011	1	09/26/22 13:33	09/27/22 19:51	7440-43-9		
Chromium	0.0024J	mg/L	0.0050	0.0011	1	09/26/22 13:33	09/27/22 19:51	7440-47-3		
Cobalt	0.016	mg/L	0.0050	0.00039	1	09/26/22 13:33	09/27/22 19:51	7440-48-4		
Lead	ND	mg/L	0.0010	0.00089	1	09/26/22 13:33	09/27/22 19:51	7439-92-1		
Lithium	ND	mg/L	0.030	0.00073	1	09/26/22 13:33	09/27/22 19:51	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00074	1	09/26/22 13:33	09/27/22 19:51	7439-98-7		
Selenium	0.0063	mg/L	0.0050	0.0014	1	09/26/22 13:33	09/27/22 19:51	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00018	1	09/26/22 13:33	09/27/22 19:51	7440-28-0		
<b>7470 Mercury</b>		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/27/22 07:45	09/27/22 12:48	7439-97-6		
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	445	mg/L	25.0	10.0	1		09/19/22 09:22			
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 16:40			
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 16:40			
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/20/22 16:40			
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	19.1	mg/L	1.0	0.60	1		09/19/22 17:59	16887-00-6		
Fluoride	0.099J	mg/L	0.10	0.050	1		09/19/22 17:59	16984-48-8		
Sulfate	273	mg/L	5.0	2.5	5		09/20/22 00:13	14808-79-8		

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## ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report  
Pace Project No.: 92625623

Sample: DGWC-8		Lab ID: 92625623015		Collected: 09/15/22 13:18		Received: 09/16/22 16:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		09/19/22 10:44		
pH	<b>5.20</b>	Std. Units			1		09/19/22 10:44		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	ND	mg/L	0.040	0.025	1	09/26/22 14:09	09/26/22 22:29	7439-89-6	
Potassium	<b>3.7</b>	mg/L	0.20	0.15	1	09/26/22 14:09	09/26/22 22:29	7440-09-7	
Sodium	<b>12.3</b>	mg/L	1.0	0.58	1	09/26/22 14:09	09/26/22 22:29	7440-23-5	
Calcium	<b>29.3</b>	mg/L	1.0	0.12	1	09/26/22 14:09	09/26/22 22:29	7440-70-2	
Magnesium	<b>15.0</b>	mg/L	0.050	0.012	1	09/26/22 14:09	09/26/22 22:29	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/26/22 13:33	09/27/22 20:14	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/26/22 13:33	09/27/22 20:14	7440-38-2	
Barium	<b>0.021</b>	mg/L	0.0050	0.00067	1	09/26/22 13:33	09/27/22 20:14	7440-39-3	
Beryllium	<b>0.00088</b>	mg/L	0.00050	0.000054	1	09/26/22 13:33	09/27/22 20:14	7440-41-7	
Boron	<b>0.83</b>	mg/L	0.20	0.043	5	09/26/22 13:33	09/28/22 16:18	7440-42-8	
Cadmium	<b>0.0011</b>	mg/L	0.00050	0.00011	1	09/26/22 13:33	09/27/22 20:14	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/26/22 13:33	09/27/22 20:14	7440-47-3	
Cobalt	<b>0.0046J</b>	mg/L	0.0050	0.00039	1	09/26/22 13:33	09/27/22 20:14	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/26/22 13:33	09/27/22 20:14	7439-92-1	
Lithium	<b>0.0039J</b>	mg/L	0.030	0.00073	1	09/26/22 13:33	09/27/22 20:14	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/26/22 13:33	09/27/22 20:14	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/26/22 13:33	09/27/22 20:14	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/26/22 13:33	09/27/22 20:14	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	10/03/22 11:30	10/03/22 13:57	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>234</b>	mg/L	25.0	10.0	1		09/20/22 13:21		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	<b>9.2</b>	mg/L	5.0	5.0	1		09/20/22 17:45		
Alkalinity, Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	5.0	1		09/20/22 17:45		
Alkalinity, Total as CaCO <sub>3</sub>	<b>9.2</b>	mg/L	5.0	5.0	1		09/20/22 17:45		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>8.3</b>	mg/L	1.0	0.60	1		09/20/22 20:37	16887-00-6	

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### ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report

Pace Project No.: 92625623

Sample: DGWC-8		Lab ID: 92625623015		Collected: 09/15/22 13:18	Received: 09/16/22 16:30	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Fluoride	<b>0.077J</b>	mg/L	0.10	0.050	1		09/20/22 20:37	16984-48-8	
Sulfate	<b>134</b>	mg/L	3.0	1.5	3		09/21/22 12:47	14808-79-8	

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## ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report  
Pace Project No.: 92625623

Sample: DGWC-10		Lab ID: 92625623016		Collected: 09/15/22 10:25		Received: 09/16/22 16:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		09/19/22 10:44		
pH	<b>4.87</b>	Std. Units			1		09/19/22 10:44		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	ND	mg/L	0.040	0.025	1	09/26/22 14:09	09/26/22 22:33	7439-89-6	
Potassium	<b>5.7</b>	mg/L	0.20	0.15	1	09/26/22 14:09	09/26/22 22:33	7440-09-7	
Sodium	<b>10.3</b>	mg/L	1.0	0.58	1	09/26/22 14:09	09/26/22 22:33	7440-23-5	
Calcium	<b>64.4</b>	mg/L	1.0	0.12	1	09/26/22 14:09	09/26/22 22:33	7440-70-2	
Magnesium	<b>6.2</b>	mg/L	0.050	0.012	1	09/26/22 14:09	09/26/22 22:33	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/26/22 13:33	09/27/22 20:20	7440-36-0	
Arsenic	<b>0.0024J</b>	mg/L	0.0050	0.0022	1	09/26/22 13:33	09/27/22 20:20	7440-38-2	
Barium	<b>0.018</b>	mg/L	0.0050	0.00067	1	09/26/22 13:33	09/27/22 20:20	7440-39-3	
Beryllium	<b>0.0063</b>	mg/L	0.00050	0.000054	1	09/26/22 13:33	09/27/22 20:20	7440-41-7	
Boron	<b>0.42</b>	mg/L	0.040	0.0086	1	09/26/22 13:33	09/28/22 16:24	7440-42-8	
Cadmium	<b>0.00047J</b>	mg/L	0.00050	0.00011	1	09/26/22 13:33	09/27/22 20:20	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/26/22 13:33	09/27/22 20:20	7440-47-3	
Cobalt	<b>0.055</b>	mg/L	0.0050	0.00039	1	09/26/22 13:33	09/27/22 20:20	7440-48-4	
Lead	ND	mg/L	0.0050	0.0044	5	09/26/22 13:33	09/29/22 14:24	7439-92-1	D3
Lithium	<b>0.0053J</b>	mg/L	0.030	0.00073	1	09/26/22 13:33	09/27/22 20:20	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/26/22 13:33	09/27/22 20:20	7439-98-7	
Selenium	<b>0.020</b>	mg/L	0.0050	0.0014	1	09/26/22 13:33	09/27/22 20:20	7782-49-2	
Thallium	ND	mg/L	0.0050	0.00090	5	09/26/22 13:33	09/29/22 14:24	7440-28-0	D3
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	10/03/22 11:30	10/03/22 14:00	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>280</b>	mg/L	25.0	10.0	1		09/20/22 13:21		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 17:50		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 17:50		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/20/22 17:50		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>8.2</b>	mg/L	1.0	0.60	1		09/20/22 21:22	16887-00-6	

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### ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report

Pace Project No.: 92625623

**Sample: DGWC-10**      **Lab ID: 92625623016**      Collected: 09/15/22 10:25      Received: 09/16/22 16:30      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	<b>0.84</b>	mg/L	0.10	0.050	1		09/20/22 21:22	16984-48-8	
Sulfate	<b>229</b>	mg/L	5.0	2.5	5		09/21/22 13:02	14808-79-8	

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### ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report  
Pace Project No.: 92625623

Sample: <b>DGWC-11</b>	Lab ID: <b>92625623017</b>	Collected: 09/15/22 13:45	Received: 09/16/22 16:30	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		09/19/22 10:44		
pH	<b>5.52</b>	Std. Units			1		09/19/22 10:44		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	ND	mg/L	0.040	0.025	1	09/26/22 14:09	09/26/22 22:38	7439-89-6	
Potassium	<b>4.5</b>	mg/L	0.20	0.15	1	09/26/22 14:09	09/26/22 22:38	7440-09-7	
Sodium	<b>21.0</b>	mg/L	1.0	0.58	1	09/26/22 14:09	09/26/22 22:38	7440-23-5	
Calcium	<b>66.6</b>	mg/L	1.0	0.12	1	09/26/22 14:09	09/26/22 22:38	7440-70-2	
Magnesium	<b>25.8</b>	mg/L	0.050	0.012	1	09/26/22 14:09	09/26/22 22:38	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/26/22 13:33	09/27/22 20:26	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/26/22 13:33	09/27/22 20:26	7440-38-2	
Barium	<b>0.047</b>	mg/L	0.0050	0.00067	1	09/26/22 13:33	09/27/22 20:26	7440-39-3	
Beryllium	<b>0.00018J</b>	mg/L	0.00050	0.000054	1	09/26/22 13:33	09/27/22 20:26	7440-41-7	
Boron	<b>1.7</b>	mg/L	0.40	0.086	10	09/26/22 13:33	09/28/22 16:30	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/26/22 13:33	09/27/22 20:26	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/26/22 13:33	09/27/22 20:26	7440-47-3	
Cobalt	<b>0.0010J</b>	mg/L	0.0050	0.00039	1	09/26/22 13:33	09/27/22 20:26	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/26/22 13:33	09/27/22 20:26	7439-92-1	
Lithium	<b>0.0024J</b>	mg/L	0.030	0.00073	1	09/26/22 13:33	09/27/22 20:26	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/26/22 13:33	09/27/22 20:26	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/26/22 13:33	09/27/22 20:26	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/26/22 13:33	09/27/22 20:26	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	10/03/22 11:30	10/03/22 14:03	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>414</b>	mg/L	25.0	10.0	1		09/20/22 13:21		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	<b>12.5</b>	mg/L	5.0	5.0	1		09/20/22 17:55		
Alkalinity, Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	5.0	1		09/20/22 17:55		
Alkalinity, Total as CaCO <sub>3</sub>	<b>12.5</b>	mg/L	5.0	5.0	1		09/20/22 17:55		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>12.1</b>	mg/L	1.0	0.60	1		09/20/22 21:37	16887-00-6	

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### ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report

Pace Project No.: 92625623

**Sample: DGWC-11**      **Lab ID: 92625623017**      Collected: 09/15/22 13:45      Received: 09/16/22 16:30      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	<b>0.064J</b>	mg/L	0.10	0.050	1		09/20/22 21:37	16984-48-8	
Sulfate	<b>287</b>	mg/L	6.0	3.0	6		09/21/22 13:16	14808-79-8	

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### ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report  
Pace Project No.: 92625623

Sample: DGWC-12		Lab ID: 92625623018		Collected: 09/15/22 15:20		Received: 09/16/22 16:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		09/19/22 10:45		
pH	<b>5.75</b>	Std. Units			1		09/19/22 10:45		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	<b>9.9</b>	mg/L	0.040	0.025	1	09/26/22 14:09	09/26/22 22:43	7439-89-6	
Potassium	<b>5.5</b>	mg/L	0.20	0.15	1	09/26/22 14:09	09/26/22 22:43	7440-09-7	
Sodium	<b>12.7</b>	mg/L	1.0	0.58	1	09/26/22 14:09	09/26/22 22:43	7440-23-5	
Calcium	<b>41.5</b>	mg/L	1.0	0.12	1	09/26/22 14:09	09/26/22 22:43	7440-70-2	
Magnesium	<b>19.5</b>	mg/L	0.050	0.012	1	09/26/22 14:09	09/26/22 22:43	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/26/22 13:33	09/27/22 20:44	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/26/22 13:33	09/27/22 20:44	7440-38-2	
Barium	<b>0.035</b>	mg/L	0.0050	0.00067	1	09/26/22 13:33	09/27/22 20:44	7440-39-3	
Beryllium	<b>0.00019J</b>	mg/L	0.00050	0.000054	1	09/26/22 13:33	09/27/22 20:44	7440-41-7	
Boron	<b>3.3</b>	mg/L	0.40	0.086	10	09/26/22 13:33	09/28/22 16:36	7440-42-8	
Cadmium	<b>0.00017J</b>	mg/L	0.00050	0.00011	1	09/26/22 13:33	09/27/22 20:44	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/26/22 13:33	09/27/22 20:44	7440-47-3	
Cobalt	<b>0.025</b>	mg/L	0.0050	0.00039	1	09/26/22 13:33	09/27/22 20:44	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/26/22 13:33	09/27/22 20:44	7439-92-1	
Lithium	<b>0.00088J</b>	mg/L	0.030	0.00073	1	09/26/22 13:33	09/27/22 20:44	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/26/22 13:33	09/27/22 20:44	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/26/22 13:33	09/27/22 20:44	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/26/22 13:33	09/27/22 20:44	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	10/03/22 11:30	10/03/22 14:05	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>377</b>	mg/L	25.0	10.0	1		09/20/22 13:21		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	<b>33.6</b>	mg/L	5.0	5.0	1		09/20/22 12:09		
Alkalinity, Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	5.0	1		09/20/22 12:09		
Alkalinity, Total as CaCO <sub>3</sub>	<b>33.6</b>	mg/L	5.0	5.0	1		09/20/22 12:09		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>8.2</b>	mg/L	1.0	0.60	1		09/20/22 21:52	16887-00-6	

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### ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report

Pace Project No.: 92625623

**Sample: DGWC-12**      **Lab ID: 92625623018**      Collected: 09/15/22 15:20      Received: 09/16/22 16:30      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	<b>0.078J</b>	mg/L	0.10	0.050	1		09/20/22 21:52	16984-48-8	
Sulfate	<b>191</b>	mg/L	4.0	2.0	4		09/21/22 13:31	14808-79-8	

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## ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report  
Pace Project No.: 92625623

Sample: DGWC-13		Lab ID: 92625623019		Collected: 09/15/22 09:35		Received: 09/16/22 16:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		09/19/22 10:45		
pH	<b>5.56</b>	Std. Units			1		09/19/22 10:45		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	ND	mg/L	0.040	0.025	1	09/26/22 14:09	09/26/22 22:57	7439-89-6	
Potassium	<b>4.9</b>	mg/L	0.20	0.15	1	09/26/22 14:09	09/26/22 22:57	7440-09-7	
Sodium	<b>20.7</b>	mg/L	1.0	0.58	1	09/26/22 14:09	09/26/22 22:57	7440-23-5	
Calcium	<b>36.7</b>	mg/L	1.0	0.12	1	09/26/22 14:09	09/26/22 22:57	7440-70-2	
Magnesium	<b>7.9</b>	mg/L	0.050	0.012	1	09/26/22 14:09	09/26/22 22:57	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/26/22 13:33	09/27/22 20:50	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/26/22 13:33	09/27/22 20:50	7440-38-2	
Barium	<b>0.027</b>	mg/L	0.0050	0.00067	1	09/26/22 13:33	09/27/22 20:50	7440-39-3	
Beryllium	<b>0.000080J</b>	mg/L	0.00050	0.000054	1	09/26/22 13:33	09/27/22 20:50	7440-41-7	
Boron	<b>0.69</b>	mg/L	0.20	0.043	5	09/26/22 13:33	09/28/22 16:42	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/26/22 13:33	09/27/22 20:50	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/26/22 13:33	09/27/22 20:50	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/26/22 13:33	09/27/22 20:50	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/26/22 13:33	09/27/22 20:50	7439-92-1	
Lithium	<b>0.0040J</b>	mg/L	0.030	0.00073	1	09/26/22 13:33	09/27/22 20:50	7439-93-2	
Molybdenum	<b>0.0094J</b>	mg/L	0.010	0.00074	1	09/26/22 13:33	09/27/22 20:50	7439-98-7	
Selenium	<b>0.0040J</b>	mg/L	0.0050	0.0014	1	09/26/22 13:33	09/27/22 20:50	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/26/22 13:33	09/27/22 20:50	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	10/03/22 11:30	10/03/22 14:08	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>216</b>	mg/L	25.0	10.0	1		09/20/22 13:21		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	<b>22.1</b>	mg/L	5.0	5.0	1		09/20/22 12:28		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 12:28		
Alkalinity, Total as CaCO3	<b>22.1</b>	mg/L	5.0	5.0	1		09/20/22 12:28		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>13.7</b>	mg/L	1.0	0.60	1		09/20/22 22:07	16887-00-6	

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### ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report

Pace Project No.: 92625623

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**Sample: DGWC-13**      **Lab ID: 92625623019**      Collected: 09/15/22 09:35      Received: 09/16/22 16:30      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	<b>0.095J</b>	mg/L	0.10	0.050	1		09/20/22 22:07	16984-48-8	
Sulfate	<b>133</b>	mg/L	3.0	1.5	3		09/21/22 13:46	14808-79-8	

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## ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report  
Pace Project No.: 92625623

Sample: DGWC-20		Lab ID: 92625623020		Collected: 09/15/22 11:45		Received: 09/16/22 16:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		09/19/22 10:45		
pH	<b>4.58</b>	Std. Units			1		09/19/22 10:45		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	<b>0.034J</b>	mg/L	0.040	0.025	1	09/26/22 14:09	09/26/22 23:02	7439-89-6	
Potassium	<b>7.7</b>	mg/L	0.20	0.15	1	09/26/22 14:09	09/26/22 23:02	7440-09-7	
Sodium	<b>17.3</b>	mg/L	1.0	0.58	1	09/26/22 14:09	09/26/22 23:02	7440-23-5	
Calcium	<b>70.1</b>	mg/L	1.0	0.12	1	09/26/22 14:09	09/26/22 23:02	7440-70-2	
Magnesium	<b>25.4</b>	mg/L	0.050	0.012	1	09/26/22 14:09	09/26/22 23:02	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/26/22 13:33	09/27/22 20:56	7440-36-0	
Arsenic	<b>0.016</b>	mg/L	0.0050	0.0022	1	09/26/22 13:33	09/27/22 20:56	7440-38-2	
Barium	<b>0.017</b>	mg/L	0.0050	0.00067	1	09/26/22 13:33	09/27/22 20:56	7440-39-3	
Beryllium	<b>0.0056</b>	mg/L	0.00050	0.000054	1	09/26/22 13:33	09/27/22 20:56	7440-41-7	
Boron	<b>4.2</b>	mg/L	0.20	0.043	5	09/26/22 13:33	09/28/22 16:48	7440-42-8	
Cadmium	<b>0.0021</b>	mg/L	0.00050	0.00011	1	09/26/22 13:33	09/27/22 20:56	7440-43-9	
Chromium	<b>0.0014J</b>	mg/L	0.0050	0.0011	1	09/26/22 13:33	09/27/22 20:56	7440-47-3	
Cobalt	<b>0.75</b>	mg/L	0.0050	0.00039	1	09/26/22 13:33	09/27/22 20:56	7440-48-4	
Lead	ND	mg/L	0.0050	0.0044	5	09/26/22 13:33	09/28/22 16:48	7439-92-1	D3
Lithium	<b>0.0096J</b>	mg/L	0.030	0.00073	1	09/26/22 13:33	09/27/22 20:56	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/26/22 13:33	09/27/22 20:56	7439-98-7	
Selenium	<b>0.062</b>	mg/L	0.0050	0.0014	1	09/26/22 13:33	09/27/22 20:56	7782-49-2	
Thallium	<b>0.0010J</b>	mg/L	0.0050	0.00090	5	09/26/22 13:33	09/28/22 16:48	7440-28-0	D3
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	10/03/22 11:30	10/03/22 14:10	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>618</b>	mg/L	50.0	20.0	1		09/20/22 13:21		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	5.0	1		09/20/22 12:34		
Alkalinity, Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	5.0	1		09/20/22 12:34		
Alkalinity, Total as CaCO <sub>3</sub>	ND	mg/L	5.0	5.0	1		09/20/22 12:34		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>26.2</b>	mg/L	1.0	0.60	1		09/20/22 22:22	16887-00-6	

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### ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report

Pace Project No.: 92625623

**Sample: DGWC-20**      **Lab ID: 92625623020**      Collected: 09/15/22 11:45      Received: 09/16/22 16:30      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	<b>0.69</b>	mg/L	0.10	0.050	1		09/20/22 22:22	16984-48-8	
Sulfate	<b>462</b>	mg/L	9.0	4.5	9		09/21/22 14:00	14808-79-8	

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## ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report  
Pace Project No.: 92625623

Sample: DGWC-21		Lab ID: 92625623021		Collected: 09/15/22 16:10		Received: 09/16/22 16:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		09/19/22 10:45		
pH	<b>5.69</b>	Std. Units			1		09/19/22 10:45		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	ND	mg/L	0.040	0.025	1	09/28/22 12:36	09/28/22 17:00	7439-89-6	
Potassium	<b>6.6</b>	mg/L	0.20	0.15	1	09/28/22 12:36	09/28/22 17:00	7440-09-7	
Sodium	<b>22.4</b>	mg/L	1.0	0.58	1	09/28/22 12:36	09/28/22 17:00	7440-23-5	
Calcium	<b>82.2</b>	mg/L	1.0	0.12	1	09/28/22 12:36	09/28/22 17:00	7440-70-2	
Magnesium	<b>17.5</b>	mg/L	0.050	0.012	1	09/28/22 12:36	09/28/22 17:00	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/26/22 13:33	09/27/22 21:02	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/26/22 13:33	09/27/22 21:02	7440-38-2	
Barium	<b>0.024</b>	mg/L	0.0050	0.00067	1	09/26/22 13:33	09/27/22 21:02	7440-39-3	
Beryllium	<b>0.00018J</b>	mg/L	0.00050	0.000054	1	09/26/22 13:33	09/27/22 21:02	7440-41-7	
Boron	<b>6.7</b>	mg/L	0.40	0.086	10	09/26/22 13:33	09/28/22 16:54	7440-42-8	
Cadmium	<b>0.00029J</b>	mg/L	0.00050	0.00011	1	09/26/22 13:33	09/27/22 21:02	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/26/22 13:33	09/27/22 21:02	7440-47-3	
Cobalt	<b>0.0081</b>	mg/L	0.0050	0.00039	1	09/26/22 13:33	09/27/22 21:02	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/26/22 13:33	09/27/22 21:02	7439-92-1	
Lithium	<b>0.0069J</b>	mg/L	0.030	0.00073	1	09/26/22 13:33	09/27/22 21:02	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/26/22 13:33	09/27/22 21:02	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/26/22 13:33	09/27/22 21:02	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/26/22 13:33	09/27/22 21:02	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	10/03/22 11:30	10/03/22 14:13	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>440</b>	mg/L	25.0	10.0	1		09/20/22 13:21		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	<b>31.6</b>	mg/L	5.0	5.0	1		09/21/22 17:42		
Alkalinity, Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	5.0	1		09/21/22 17:42		
Alkalinity, Total as CaCO <sub>3</sub>	<b>31.6</b>	mg/L	5.0	5.0	1		09/21/22 17:42		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>17.6</b>	mg/L	1.0	0.60	1		09/20/22 23:07	16887-00-6	

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### ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report

Pace Project No.: 92625623

Sample: DGWC-21		Lab ID: 92625623021		Collected: 09/15/22 16:10	Received: 09/16/22 16:30	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Fluoride	<b>0.087J</b>	mg/L	0.10	0.050	1		09/20/22 23:07	16984-48-8	
Sulfate	<b>268</b>	mg/L	5.0	2.5	5		09/21/22 15:35	14808-79-8	

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## ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report  
Pace Project No.: 92625623

Sample: EB-5		Lab ID: 92625623022		Collected: 09/15/22 11:45		Received: 09/16/22 16:30		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
<b>6010D ATL ICP</b>		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	0.028J	mg/L	0.040	0.025	1	09/28/22 12:36	09/28/22 17:05	7439-89-6		
Potassium	ND	mg/L	0.20	0.15	1	09/28/22 12:36	09/28/22 17:05	7440-09-7		
Sodium	ND	mg/L	1.0	0.58	1	09/28/22 12:36	09/28/22 17:05	7440-23-5		
Calcium	ND	mg/L	1.0	0.12	1	09/28/22 12:36	09/28/22 17:05	7440-70-2		
Magnesium	ND	mg/L	0.050	0.012	1	09/28/22 12:36	09/28/22 17:05	7439-95-4		
<b>6020 MET ICPMS</b>		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	0.00096J	mg/L	0.0030	0.00078	1	09/27/22 18:00	09/29/22 15:44	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.0022	1	09/27/22 18:00	09/29/22 15:44	7440-38-2		
Barium	ND	mg/L	0.0050	0.00067	1	09/27/22 18:00	09/29/22 15:44	7440-39-3		
Beryllium	0.000080J	mg/L	0.00050	0.000054	1	09/27/22 18:00	09/29/22 15:44	7440-41-7		
Boron	0.010J	mg/L	0.040	0.0086	1	09/27/22 18:00	09/29/22 15:44	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00011	1	09/27/22 18:00	09/29/22 15:44	7440-43-9		
Chromium	ND	mg/L	0.0050	0.0011	1	09/27/22 18:00	09/29/22 15:44	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00039	1	09/27/22 18:00	09/29/22 15:44	7440-48-4		
Lead	ND	mg/L	0.0010	0.00089	1	09/27/22 18:00	09/29/22 15:44	7439-92-1		
Lithium	ND	mg/L	0.030	0.00073	1	09/27/22 18:00	09/29/22 15:44	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00074	1	09/27/22 18:00	09/29/22 15:44	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0014	1	09/27/22 18:00	09/29/22 15:44	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00018	1	09/27/22 18:00	09/29/22 15:44	7440-28-0		
<b>7470 Mercury</b>		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	10/03/22 11:30	10/03/22 14:21	7439-97-6		
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	10.0	1		09/20/22 13:22			
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/21/22 17:49			
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/21/22 17:49			
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/21/22 17:49			
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		09/20/22 23:22	16887-00-6		
Fluoride	0.052J	mg/L	0.10	0.050	1		09/20/22 23:22	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		09/20/22 23:22	14808-79-8		

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## ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report  
Pace Project No.: 92625623

Sample: DGWC-22		Lab ID: 92626314001		Collected: 09/16/22 12:01		Received: 09/16/22 16:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		09/19/22 10:47		
pH	<b>5.62</b>	Std. Units			1		09/19/22 10:47		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	ND	mg/L	0.040	0.025	1	09/28/22 12:36	09/28/22 17:19	7439-89-6	
Potassium	<b>6.8</b>	mg/L	0.20	0.15	1	09/28/22 12:36	09/28/22 17:19	7440-09-7	
Sodium	<b>30.4</b>	mg/L	1.0	0.58	1	09/28/22 12:36	09/28/22 17:19	7440-23-5	
Calcium	<b>66.2</b>	mg/L	1.0	0.12	1	09/28/22 12:36	09/28/22 17:19	7440-70-2	
Magnesium	<b>22.8</b>	mg/L	0.050	0.012	1	09/28/22 12:36	09/28/22 17:19	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/27/22 18:00	09/29/22 15:50	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/27/22 18:00	09/29/22 15:50	7440-38-2	
Barium	<b>0.029</b>	mg/L	0.0050	0.00067	1	09/27/22 18:00	09/29/22 15:50	7440-39-3	
Beryllium	<b>0.00023J</b>	mg/L	0.00050	0.000054	1	09/27/22 18:00	09/29/22 15:50	7440-41-7	
Boron	<b>4.2</b>	mg/L	0.040	0.0086	1	09/27/22 18:00	09/29/22 15:50	7440-42-8	
Cadmium	<b>0.00065</b>	mg/L	0.00050	0.00011	1	09/27/22 18:00	09/29/22 15:50	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/27/22 18:00	09/29/22 15:50	7440-47-3	
Cobalt	<b>0.0098</b>	mg/L	0.0050	0.00039	1	09/27/22 18:00	09/29/22 15:50	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/27/22 18:00	09/29/22 15:50	7439-92-1	
Lithium	<b>0.0033J</b>	mg/L	0.030	0.00073	1	09/27/22 18:00	09/29/22 15:50	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/27/22 18:00	09/29/22 15:50	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/27/22 18:00	09/29/22 15:50	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/27/22 18:00	09/29/22 15:50	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	10/03/22 11:30	10/03/22 14:23	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>462</b>	mg/L	25.0	10.0	1		09/20/22 13:22		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	<b>24.7</b>	mg/L	5.0	5.0	1		09/21/22 20:57		
Alkalinity, Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	5.0	1		09/21/22 20:57		
Alkalinity, Total as CaCO <sub>3</sub>	<b>24.7</b>	mg/L	5.0	5.0	1		09/21/22 20:57		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>18.0</b>	mg/L	1.0	0.60	1		09/20/22 23:37	16887-00-6	

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### ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report

Pace Project No.: 92625623

**Sample: DGWC-22**      **Lab ID: 92626314001**      Collected: 09/16/22 12:01      Received: 09/16/22 16:30      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	<b>0.068J</b>	mg/L	0.10	0.050	1		09/20/22 23:37	16984-48-8	
Sulfate	<b>265</b>	mg/L	5.0	2.5	5		09/21/22 15:50	14808-79-8	

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## ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report  
Pace Project No.: 92625623

Sample: DGWC-4		Lab ID: 92626314002		Collected: 09/19/22 13:26		Received: 09/20/22 09:50		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		09/20/22 11:27		
pH	<b>5.76</b>	Std. Units			1		09/20/22 11:27		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	ND	mg/L	0.040	0.025	1	09/28/22 12:36	09/28/22 17:47	7439-89-6	
Potassium	<b>10.5</b>	mg/L	0.20	0.15	1	09/28/22 12:36	09/28/22 17:47	7440-09-7	
Sodium	<b>59.4</b>	mg/L	1.0	0.58	1	09/28/22 12:36	09/28/22 17:47	7440-23-5	
Magnesium	<b>41.3</b>	mg/L	0.050	0.012	1	09/28/22 12:36	09/28/22 17:47	7439-95-4	
Calcium	<b>376</b>	mg/L	10.0	1.2	10	09/28/22 12:36	09/29/22 14:03	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/27/22 18:00	09/29/22 15:56	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/27/22 18:00	09/29/22 15:56	7440-38-2	
Barium	<b>0.032</b>	mg/L	0.0050	0.00067	1	09/27/22 18:00	09/29/22 15:56	7440-39-3	
Beryllium	<b>0.00034J</b>	mg/L	0.00050	0.000054	1	09/27/22 18:00	09/29/22 15:56	7440-41-7	
Boron	<b>4.8</b>	mg/L	0.040	0.0086	1	09/27/22 18:00	09/29/22 15:56	7440-42-8	
Cadmium	<b>0.00091</b>	mg/L	0.00050	0.00011	1	09/27/22 18:00	09/29/22 15:56	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/27/22 18:00	09/29/22 15:56	7440-47-3	
Cobalt	<b>0.0018J</b>	mg/L	0.0050	0.00039	1	09/27/22 18:00	09/29/22 15:56	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/27/22 18:00	09/29/22 15:56	7439-92-1	
Lithium	<b>0.0037J</b>	mg/L	0.030	0.00073	1	09/27/22 18:00	09/29/22 15:56	7439-93-2	
Molybdenum	<b>0.0037J</b>	mg/L	0.010	0.00074	1	09/27/22 18:00	09/29/22 15:56	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/27/22 18:00	09/29/22 15:56	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/27/22 18:00	09/29/22 15:56	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	10/03/22 11:30	10/03/22 14:26	7439-97-6	
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	<b>127</b>	mg/L	5.0	5.0	1		09/21/22 22:42		
Alkalinity, Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	5.0	1		09/21/22 22:42		
Alkalinity, Total as CaCO <sub>3</sub>	<b>127</b>	mg/L	5.0	5.0	1		09/21/22 22:42		
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2011									
Pace Analytical Services - Asheville									
Total Dissolved Solids	<b>1670</b>	mg/L	50.0	50.0	1		09/23/22 10:02		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>11.2</b>	mg/L	1.0	0.60	1		09/22/22 03:47	16887-00-6	

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### ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report

Pace Project No.: 92625623

**Sample: DGWC-4**      **Lab ID: 92626314002**      Collected: 09/19/22 13:26      Received: 09/20/22 09:50      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	<b>0.061J</b>	mg/L	0.10	0.050	1		09/22/22 03:47	16984-48-8	
Sulfate	<b>925</b>	mg/L	16.0	8.0	16		09/22/22 10:08	14808-79-8	

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## ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report  
Pace Project No.: 92625623

Sample: DGWC-9		Lab ID: 92626314003		Collected: 09/19/22 11:49		Received: 09/20/22 09:50		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		09/20/22 11:27		
pH	<b>3.98</b>	Std. Units			1		09/20/22 11:27		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	ND	mg/L	0.040	0.025	1	09/28/22 12:36	09/28/22 17:52	7439-89-6	
Potassium	<b>5.7</b>	mg/L	0.20	0.15	1	09/28/22 12:36	09/28/22 17:52	7440-09-7	
Sodium	<b>34.3</b>	mg/L	1.0	0.58	1	09/28/22 12:36	09/28/22 17:52	7440-23-5	
Calcium	<b>45.1</b>	mg/L	1.0	0.12	1	09/28/22 12:36	09/28/22 17:52	7440-70-2	
Magnesium	<b>8.3</b>	mg/L	0.050	0.012	1	09/28/22 12:36	09/28/22 17:52	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/27/22 18:00	09/29/22 16:02	7440-36-0	
Arsenic	<b>0.016</b>	mg/L	0.0050	0.0022	1	09/27/22 18:00	09/29/22 16:02	7440-38-2	
Barium	<b>0.017</b>	mg/L	0.0050	0.00067	1	09/27/22 18:00	09/29/22 16:02	7440-39-3	
Beryllium	<b>0.0047</b>	mg/L	0.00050	0.000054	1	09/27/22 18:00	09/29/22 16:02	7440-41-7	
Boron	<b>0.80</b>	mg/L	0.040	0.0086	1	09/27/22 18:00	09/29/22 16:02	7440-42-8	
Cadmium	<b>0.00076</b>	mg/L	0.00050	0.00011	1	09/27/22 18:00	09/29/22 16:02	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/27/22 18:00	09/29/22 16:02	7440-47-3	
Cobalt	<b>0.25</b>	mg/L	0.0050	0.00039	1	09/27/22 18:00	09/29/22 16:02	7440-48-4	
Lead	ND	mg/L	0.0050	0.0044	5	09/27/22 18:00	09/30/22 12:48	7439-92-1	D3
Lithium	<b>0.023J</b>	mg/L	0.030	0.00073	1	09/27/22 18:00	09/29/22 16:02	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/27/22 18:00	09/29/22 16:02	7439-98-7	
Selenium	<b>0.048</b>	mg/L	0.0050	0.0014	1	09/27/22 18:00	09/29/22 16:02	7782-49-2	
Thallium	ND	mg/L	0.0050	0.00090	5	09/27/22 18:00	09/30/22 12:48	7440-28-0	D3
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	<b>0.00020</b>	mg/L	0.00020	0.00013	1	10/03/22 11:30	10/03/22 14:29	7439-97-6	
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/22/22 08:12		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/22/22 08:12		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/22/22 08:12		
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2011									
Pace Analytical Services - Asheville									
Total Dissolved Solids	<b>456</b>	mg/L	25.0	25.0	1		09/23/22 10:02		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>13.2</b>	mg/L	1.0	0.60	1		09/22/22 04:02	16887-00-6	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report

Pace Project No.: 92625623

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**Sample: DGWC-9**      **Lab ID: 92626314003**      Collected: 09/19/22 11:49      Received: 09/20/22 09:50      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	<b>0.80</b>	mg/L	0.10	0.050	1		09/22/22 04:02	16984-48-8	
Sulfate	<b>274</b>	mg/L	5.0	2.5	5		09/22/22 10:23	14808-79-8	

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### ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report  
Pace Project No.: 92625623

Sample: DUP-6		Lab ID: 92626314004		Collected: 09/19/22 00:00	Received: 09/20/22 09:50	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
<b>6010D ATL ICP</b>		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/28/22 12:36	09/28/22 17:57	7439-89-6		
Potassium	5.5	mg/L	0.20	0.15	1	09/28/22 12:36	09/28/22 17:57	7440-09-7		
Sodium	33.0	mg/L	1.0	0.58	1	09/28/22 12:36	09/28/22 17:57	7440-23-5		
Calcium	44.6	mg/L	1.0	0.12	1	09/28/22 12:36	09/28/22 17:57	7440-70-2		
Magnesium	8.3	mg/L	0.050	0.012	1	09/28/22 12:36	09/28/22 17:57	7439-95-4		
<b>6020 MET ICPMS</b>		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/27/22 18:00	09/29/22 16:23	7440-36-0		
Arsenic	0.016	mg/L	0.0050	0.0022	1	09/27/22 18:00	09/29/22 16:23	7440-38-2		
Barium	0.016	mg/L	0.0050	0.00067	1	09/27/22 18:00	09/29/22 16:23	7440-39-3		
Beryllium	0.0047	mg/L	0.00050	0.000054	1	09/27/22 18:00	09/29/22 16:23	7440-41-7		
Boron	0.76	mg/L	0.040	0.0086	1	09/27/22 18:00	09/29/22 16:23	7440-42-8		
Cadmium	0.00067	mg/L	0.00050	0.00011	1	09/27/22 18:00	09/29/22 16:23	7440-43-9		
Chromium	ND	mg/L	0.0050	0.0011	1	09/27/22 18:00	09/29/22 16:23	7440-47-3		
Cobalt	0.23	mg/L	0.0050	0.00039	1	09/27/22 18:00	09/29/22 16:23	7440-48-4		
Lead	ND	mg/L	0.0050	0.0044	5	09/27/22 18:00	09/30/22 12:54	7439-92-1	D3	
Lithium	0.023J	mg/L	0.030	0.00073	1	09/27/22 18:00	09/29/22 16:23	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00074	1	09/27/22 18:00	09/29/22 16:23	7439-98-7		
Selenium	0.048	mg/L	0.0050	0.0014	1	09/27/22 18:00	09/29/22 16:23	7782-49-2		
Thallium	ND	mg/L	0.0050	0.00090	5	09/27/22 18:00	09/30/22 12:54	7440-28-0	D3	
<b>7470 Mercury</b>		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	0.00022	mg/L	0.00020	0.00013	1	10/03/22 11:30	10/03/22 14:31	7439-97-6		
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/22/22 08:16			
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/22/22 08:16			
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/22/22 08:16			
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM 2540C-2011 Pace Analytical Services - Asheville								
Total Dissolved Solids	457	mg/L	25.0	25.0	1		09/23/22 10:02			
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	13.1	mg/L	1.0	0.60	1		09/22/22 04:18	16887-00-6		
Fluoride	0.78	mg/L	0.10	0.050	1		09/22/22 04:18	16984-48-8		
Sulfate	272	mg/L	5.0	2.5	5		09/22/22 10:38	14808-79-8		

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## ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report  
Pace Project No.: 92625623

Sample: DGWC-2      Lab ID: 92626314005      Collected: 09/20/22 13:16      Received: 09/21/22 15:05      Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		09/21/22 16:47		
pH	<b>5.98</b>	Std. Units			1		09/21/22 16:47		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D      Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Iron	ND	mg/L	0.040	0.025	1	09/29/22 14:12	09/29/22 18:08	7439-89-6	
Potassium	<b>5.1</b>	mg/L	0.20	0.15	1	09/29/22 14:12	09/29/22 18:08	7440-09-7	
Sodium	<b>9.5</b>	mg/L	1.0	0.58	1	09/29/22 14:12	09/29/22 18:08	7440-23-5	
Calcium	<b>37.8</b>	mg/L	1.0	0.12	1	09/29/22 14:12	09/29/22 18:08	7440-70-2	M1
Magnesium	<b>7.6</b>	mg/L	0.050	0.012	1	09/29/22 14:12	09/29/22 18:08	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B      Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/27/22 18:00	09/29/22 16:29	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/27/22 18:00	09/29/22 16:29	7440-38-2	
Barium	<b>0.020</b>	mg/L	0.0050	0.00067	1	09/27/22 18:00	09/29/22 16:29	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/27/22 18:00	09/29/22 16:29	7440-41-7	
Boron	<b>0.42</b>	mg/L	0.040	0.0086	1	09/27/22 18:00	09/29/22 16:29	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/27/22 18:00	09/29/22 16:29	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/27/22 18:00	09/29/22 16:29	7440-47-3	
Cobalt	<b>0.0028J</b>	mg/L	0.0050	0.00039	1	09/27/22 18:00	09/29/22 16:29	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/27/22 18:00	09/29/22 16:29	7439-92-1	
Lithium	<b>0.021J</b>	mg/L	0.030	0.00073	1	09/27/22 18:00	09/29/22 16:29	7439-93-2	
Molybdenum	<b>0.0021J</b>	mg/L	0.010	0.00074	1	09/27/22 18:00	09/29/22 16:29	7439-98-7	
Selenium	<b>0.0018J</b>	mg/L	0.0050	0.0014	1	09/27/22 18:00	09/29/22 16:29	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/27/22 18:00	09/29/22 16:29	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A      Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	10/03/22 13:30	10/03/22 14:39	7439-97-6	
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO3)	<b>47.5</b>	mg/L	5.0	5.0	1		09/22/22 22:45		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/22/22 22:45		
Alkalinity, Total as CaCO3	<b>47.5</b>	mg/L	5.0	5.0	1		09/22/22 22:45		
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Asheville									
Total Dissolved Solids	<b>230</b>	mg/L	25.0	25.0	1		09/23/22 10:03		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	<b>2.0</b>	mg/L	1.0	0.60	1		09/23/22 02:56	16887-00-6	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report

Pace Project No.: 92625623

Sample: DGWC-2		Lab ID: 92626314005		Collected: 09/20/22 13:16	Received: 09/21/22 15:05	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Fluoride	<b>0.076J</b>	mg/L	0.10	0.050	1		09/23/22 02:56	16984-48-8	
Sulfate	<b>98.4</b>	mg/L	1.0	0.50	1		09/23/22 02:56	14808-79-8	

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## ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report  
Pace Project No.: 92625623

Sample: DGWC-23		Lab ID: 92626314006		Collected: 09/20/22 10:42		Received: 09/21/22 15:05		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		09/21/22 16:47		
pH	<b>6.00</b>	Std. Units			1		09/21/22 16:47		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	ND	mg/L	0.040	0.025	1	09/29/22 14:12	09/29/22 18:27	7439-89-6	
Potassium	<b>7.7</b>	mg/L	0.20	0.15	1	09/29/22 14:12	09/29/22 18:27	7440-09-7	
Sodium	<b>22.9</b>	mg/L	1.0	0.58	1	09/29/22 14:12	09/29/22 18:27	7440-23-5	
Calcium	<b>90.0</b>	mg/L	1.0	0.12	1	09/29/22 14:12	09/29/22 18:27	7440-70-2	
Magnesium	<b>20.4</b>	mg/L	0.050	0.012	1	09/29/22 14:12	09/29/22 18:27	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/27/22 18:00	09/29/22 16:35	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/27/22 18:00	09/29/22 16:35	7440-38-2	
Barium	<b>0.019</b>	mg/L	0.0050	0.00067	1	09/27/22 18:00	09/29/22 16:35	7440-39-3	
Beryllium	<b>0.00037J</b>	mg/L	0.00050	0.000054	1	09/27/22 18:00	09/29/22 16:35	7440-41-7	
Boron	<b>4.6</b>	mg/L	0.040	0.0086	1	09/27/22 18:00	09/29/22 16:35	7440-42-8	
Cadmium	<b>0.00017J</b>	mg/L	0.00050	0.00011	1	09/27/22 18:00	09/29/22 16:35	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/27/22 18:00	09/29/22 16:35	7440-47-3	
Cobalt	<b>0.00053J</b>	mg/L	0.0050	0.00039	1	09/27/22 18:00	09/29/22 16:35	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/27/22 18:00	09/29/22 16:35	7439-92-1	
Lithium	<b>0.0051J</b>	mg/L	0.030	0.00073	1	09/27/22 18:00	09/29/22 16:35	7439-93-2	
Molybdenum	<b>0.0095J</b>	mg/L	0.010	0.00074	1	09/27/22 18:00	09/29/22 16:35	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/27/22 18:00	09/29/22 16:35	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/27/22 18:00	09/29/22 16:35	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	10/03/22 13:30	10/03/22 14:42	7439-97-6	
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO3)	<b>87.3</b>	mg/L	5.0	5.0	1		09/22/22 22:52		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/22/22 22:52		
Alkalinity, Total as CaCO3	<b>87.3</b>	mg/L	5.0	5.0	1		09/22/22 22:52		
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2011									
Pace Analytical Services - Asheville									
Total Dissolved Solids	<b>511</b>	mg/L	25.0	25.0	1		09/23/22 10:03		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>11.6</b>	mg/L	1.0	0.60	1		09/23/22 03:11	16887-00-6	

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### ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report

Pace Project No.: 92625623

**Sample: DGWC-23**      **Lab ID: 92626314006**      Collected: 09/20/22 10:42      Received: 09/21/22 15:05      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	<b>0.11</b>	mg/L	0.10	0.050	1		09/23/22 03:11	16984-48-8	
Sulfate	<b>242</b>	mg/L	4.0	2.0	4		09/23/22 04:42	14808-79-8	

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### QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Detection-Revised Report  
Pace Project No.: 92625623

QC Batch: 725787 Analysis Method: EPA 6010D  
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL  
Laboratory: Pace Analytical Services - Peachtree Corners, GA  
Associated Lab Samples: 92625623001, 92625623002, 92625623003, 92625623004, 92625623005, 92625623006, 92625623007, 92625623008, 92625623009, 92625623010, 92625623011, 92625623015, 92625623016, 92625623017, 92625623018, 92625623019, 92625623020

METHOD BLANK: 3780823 Matrix: Water  
Associated Lab Samples: 92625623001, 92625623002, 92625623003, 92625623004, 92625623005, 92625623006, 92625623007, 92625623008, 92625623009, 92625623010, 92625623011, 92625623015, 92625623016, 92625623017, 92625623018, 92625623019, 92625623020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/26/22 20:39	
Iron	mg/L	ND	0.040	0.025	09/26/22 20:39	
Magnesium	mg/L	ND	0.050	0.012	09/26/22 20:39	
Potassium	mg/L	ND	0.20	0.15	09/26/22 20:39	
Sodium	mg/L	ND	1.0	0.58	09/26/22 20:39	

LABORATORY CONTROL SAMPLE: 3780824

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	105	80-120	
Iron	mg/L	1	1.0	104	80-120	
Magnesium	mg/L	1	1.1	106	80-120	
Potassium	mg/L	1	0.98	98	80-120	
Sodium	mg/L	1	1.1	113	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3780825 3780826

Parameter	Units	3780825		3780826		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Calcium	mg/L	11.2	1	11.8	12.0	61	81	75-125	2	20	M1
Iron	mg/L	0.040	1	1.1	1.1	102	101	75-125	1	20	
Magnesium	mg/L	4.7	1	5.5	5.6	83	94	75-125	2	20	
Potassium	mg/L	3.2	1	4.1	4.1	95	93	75-125	0	20	
Sodium	mg/L	7.0	1	7.7	7.8	73	80	75-125	1	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 Detection-Revised Report  
Pace Project No.: 92625623

QC Batch: 726415 Analysis Method: EPA 6010D  
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL  
Laboratory: Pace Analytical Services - Peachtree Corners, GA  
Associated Lab Samples: 92625623021, 92625623022, 92626314001, 92626314002, 92626314003, 92626314004

METHOD BLANK: 3783437 Matrix: Water  
Associated Lab Samples: 92625623021, 92625623022, 92626314001, 92626314002, 92626314003, 92626314004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/28/22 16:00	
Iron	mg/L	ND	0.040	0.025	09/28/22 16:00	
Magnesium	mg/L	ND	0.050	0.012	09/28/22 16:00	
Potassium	mg/L	ND	0.20	0.15	09/28/22 16:00	
Sodium	mg/L	ND	1.0	0.58	09/28/22 16:00	

LABORATORY CONTROL SAMPLE: 3783438

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	1.1	108	80-120	
Potassium	mg/L	1	1.0	100	80-120	
Sodium	mg/L	1	1.0	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3783439 3783440

Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		92625189005 Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Calcium	mg/L	10.4	1	1	11.7	11.7	130	136	75-125	1	20	M1	
Iron	mg/L	1.5	1	1	2.6	2.6	106	107	75-125	0	20		
Magnesium	mg/L	3.2	1	1	4.3	4.4	113	123	75-125	2	20		
Potassium	mg/L	2.0	1	1	3.0	3.1	103	108	75-125	2	20		
Sodium	mg/L	10.2	1	1	11.5	11.5	129	135	75-125	0	20	M1	

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### QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Detection-Revised Report  
Pace Project No.: 92625623

QC Batch: 726808 Analysis Method: EPA 6010D  
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL  
Laboratory: Pace Analytical Services - Peachtree Corners, GA  
Associated Lab Samples: 92626314005, 92626314006

METHOD BLANK: 3785265 Matrix: Water  
Associated Lab Samples: 92626314005, 92626314006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/29/22 17:58	
Iron	mg/L	ND	0.040	0.025	09/29/22 17:58	
Magnesium	mg/L	ND	0.050	0.012	09/29/22 17:58	
Potassium	mg/L	ND	0.20	0.15	09/29/22 17:58	
Sodium	mg/L	ND	1.0	0.58	09/29/22 17:58	

LABORATORY CONTROL SAMPLE: 3785266

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.93J	93	80-120	
Iron	mg/L	1	1.0	101	80-120	
Magnesium	mg/L	1	0.98	98	80-120	
Potassium	mg/L	1	0.96	96	80-120	
Sodium	mg/L	1	1.2	116	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3785267 3785268

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92626314005 Result	Spike Conc.	Spike Conc.	Result						
Calcium	mg/L	37.8	1	1	39.0	39.3	119	152	75-125	1	20 M1
Iron	mg/L	ND	1	1	1.0	1.1	102	104	75-125	3	20
Magnesium	mg/L	7.6	1	1	8.6	8.6	103	103	75-125	0	20
Potassium	mg/L	5.1	1	1	6.1	6.0	107	90	75-125	3	20
Sodium	mg/L	9.5	1	1	10.7	10.6	113	105	75-125	1	20

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### QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Detection-Revised Report  
Pace Project No.: 92625623

QC Batch: 725627 Analysis Method: EPA 6020B  
QC Batch Method: EPA 3005A Analysis Description: 6020 MET  
Laboratory: Pace Analytical Services - Peachtree Corners, GA  
Associated Lab Samples: 92625623001, 92625623002, 92625623003, 92625623004, 92625623005, 92625623006, 92625623007, 92625623008, 92625623009

METHOD BLANK: 3780267 Matrix: Water  
Associated Lab Samples: 92625623001, 92625623002, 92625623003, 92625623004, 92625623005, 92625623006, 92625623007, 92625623008, 92625623009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/26/22 20:51	
Arsenic	mg/L	ND	0.0050	0.0022	09/26/22 20:51	
Barium	mg/L	ND	0.0050	0.00067	09/26/22 20:51	
Beryllium	mg/L	ND	0.00050	0.000054	09/26/22 20:51	
Boron	mg/L	ND	0.040	0.0086	09/26/22 20:51	
Cadmium	mg/L	ND	0.00050	0.00011	09/26/22 20:51	
Chromium	mg/L	ND	0.0050	0.0011	09/26/22 20:51	
Cobalt	mg/L	ND	0.0050	0.00039	09/26/22 20:51	
Lead	mg/L	ND	0.0010	0.00089	09/26/22 20:51	
Lithium	mg/L	ND	0.030	0.00073	09/26/22 20:51	
Molybdenum	mg/L	ND	0.010	0.00074	09/26/22 20:51	
Selenium	mg/L	ND	0.0050	0.0014	09/26/22 20:51	
Thallium	mg/L	ND	0.0010	0.00018	09/26/22 20:51	

LABORATORY CONTROL SAMPLE: 3780268

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	106	80-120	
Arsenic	mg/L	0.1	0.099	99	80-120	
Barium	mg/L	0.1	0.10	100	80-120	
Beryllium	mg/L	0.1	0.10	104	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	0.096	96	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	107	80-120	
Molybdenum	mg/L	0.1	0.10	100	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: 3780269 3780270

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92625185001 Result	Spike Conc.	Spike Conc.	MS Result						
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	111	110	75-125	1	20

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### QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Detection-Revised Report  
Pace Project No.: 92625623

Parameter	Units	3780269		3780270		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92625185001 Result	MS Spike Conc.	MSD Spike Conc.									
Arsenic	mg/L	ND	0.1	0.1	0.099	0.098	99	98	75-125	2	20		
Barium	mg/L	0.017	0.1	0.1	0.12	0.12	102	103	75-125	1	20		
Beryllium	mg/L	0.0040	0.1	0.1	0.10	0.10	101	98	75-125	3	20		
Boron	mg/L	1.8	1	1	2.8	2.8	98	99	75-125	0	20		
Cadmium	mg/L	0.00047J	0.1	0.1	0.10	0.10	104	100	75-125	3	20		
Chromium	mg/L	ND	0.1	0.1	0.094	0.092	93	92	75-125	2	20		
Cobalt	mg/L	0.0036J	0.1	0.1	0.097	0.095	93	91	75-125	2	20		
Lead	mg/L	ND	0.1	0.1	0.096	0.096	96	96	75-125	0	20		
Lithium	mg/L	0.0028J	0.1	0.1	0.11	0.11	106	102	75-125	3	20		
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	102	103	75-125	0	20		
Selenium	mg/L	ND	0.1	0.1	0.10	0.10	102	101	75-125	1	20		
Thallium	mg/L	ND	0.1	0.1	0.097	0.097	97	97	75-125	1	20		

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### QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Detection-Revised Report  
Pace Project No.: 92625623

QC Batch: 725788 Analysis Method: EPA 6020B  
QC Batch Method: EPA 3005A Analysis Description: 6020 MET  
Laboratory: Pace Analytical Services - Peachtree Corners, GA  
Associated Lab Samples: 92625623010, 92625623011, 92625623015, 92625623016, 92625623017, 92625623018, 92625623019, 92625623020, 92625623021

METHOD BLANK: 3780835 Matrix: Water  
Associated Lab Samples: 92625623010, 92625623011, 92625623015, 92625623016, 92625623017, 92625623018, 92625623019, 92625623020, 92625623021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/27/22 18:21	
Arsenic	mg/L	ND	0.0050	0.0022	09/27/22 18:21	
Barium	mg/L	ND	0.0050	0.00067	09/27/22 18:21	
Beryllium	mg/L	ND	0.00050	0.000054	09/27/22 18:21	
Boron	mg/L	ND	0.040	0.0086	09/27/22 18:21	
Cadmium	mg/L	ND	0.00050	0.00011	09/27/22 18:21	
Chromium	mg/L	ND	0.0050	0.0011	09/27/22 18:21	
Cobalt	mg/L	ND	0.0050	0.00039	09/27/22 18:21	
Lead	mg/L	ND	0.0010	0.00089	09/27/22 18:21	
Lithium	mg/L	ND	0.030	0.00073	09/27/22 18:21	
Molybdenum	mg/L	ND	0.010	0.00074	09/27/22 18:21	
Selenium	mg/L	ND	0.0050	0.0014	09/27/22 18:21	
Thallium	mg/L	ND	0.0010	0.00018	09/27/22 18:21	

LABORATORY CONTROL SAMPLE: 3780836

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	107	80-120	
Arsenic	mg/L	0.1	0.097	97	80-120	
Barium	mg/L	0.1	0.098	98	80-120	
Beryllium	mg/L	0.1	0.10	101	80-120	
Boron	mg/L	1	1.0	104	80-120	
Cadmium	mg/L	0.1	0.097	97	80-120	
Chromium	mg/L	0.1	0.099	99	80-120	
Cobalt	mg/L	0.1	0.096	96	80-120	
Lead	mg/L	0.1	0.099	99	80-120	
Lithium	mg/L	0.1	0.11	108	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	0.099	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3780837 3780838

Parameter	Units	92625178001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Result							
Antimony	mg/L	ND	0.1	0.1	0.10	0.11	104	106	75-125	2	20	

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### QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Detection-Revised Report  
Pace Project No.: 92625623

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3780837 3780838												
Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		92625178001 Result	Spike Conc.	Spike Conc.	MS Result							
Arsenic	mg/L	ND	0.1	0.1	0.10	0.099	99	98	75-125	1	20	
Barium	mg/L	0.017	0.1	0.1	0.11	0.11	94	95	75-125	0	20	
Beryllium	mg/L	0.017	0.1	0.1	0.11	0.11	94	92	75-125	2	20	
Boron	mg/L	2.9	1	1	3.7	3.7	80	81	75-125	0	20	
Cadmium	mg/L	0.0014	0.1	0.1	0.10	0.098	98	97	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.092	0.093	91	92	75-125	1	20	
Cobalt	mg/L	0.073	0.1	0.1	0.16	0.16	91	91	75-125	0	20	
Lead	mg/L	ND	0.1	0.1	0.087	0.087	87	87	75-125	0	20	
Lithium	mg/L	0.015J	0.1	0.1	0.12	0.12	102	102	75-125	1	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	101	99	75-125	2	20	
Selenium	mg/L	0.012	0.1	0.1	0.11	0.11	96	96	75-125	0	20	
Thallium	mg/L	0.00020J	0.1	0.1	0.088	0.088	88	88	75-125	0	20	

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### QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Detection-Revised Report  
Pace Project No.: 92625623

QC Batch: 726205 Analysis Method: EPA 6020B  
QC Batch Method: EPA 3005A Analysis Description: 6020 MET  
Laboratory: Pace Analytical Services - Peachtree Corners, GA  
Associated Lab Samples: 92625623022, 92626314001, 92626314002, 92626314003, 92626314004, 92626314005, 92626314006

METHOD BLANK: 3782736 Matrix: Water  
Associated Lab Samples: 92625623022, 92626314001, 92626314002, 92626314003, 92626314004, 92626314005, 92626314006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/29/22 14:50	
Arsenic	mg/L	ND	0.0050	0.0022	09/29/22 14:50	
Barium	mg/L	ND	0.0050	0.00067	09/29/22 14:50	
Beryllium	mg/L	ND	0.00050	0.000054	09/29/22 14:50	
Boron	mg/L	ND	0.040	0.0086	09/29/22 14:50	
Cadmium	mg/L	ND	0.00050	0.00011	09/29/22 14:50	
Chromium	mg/L	ND	0.0050	0.0011	09/29/22 14:50	
Cobalt	mg/L	ND	0.0050	0.00039	09/29/22 14:50	
Lead	mg/L	ND	0.0010	0.00089	09/29/22 14:50	
Lithium	mg/L	ND	0.030	0.00073	09/29/22 14:50	
Molybdenum	mg/L	ND	0.010	0.00074	09/29/22 14:50	
Selenium	mg/L	ND	0.0050	0.0014	09/29/22 14:50	
Thallium	mg/L	ND	0.0010	0.00018	09/29/22 14:50	

LABORATORY CONTROL SAMPLE: 3782737

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	0.095	95	80-120	
Barium	mg/L	0.1	0.094	94	80-120	
Beryllium	mg/L	0.1	0.096	96	80-120	
Boron	mg/L	1	1.0	102	80-120	
Cadmium	mg/L	0.1	0.098	98	80-120	
Chromium	mg/L	0.1	0.10	102	80-120	
Cobalt	mg/L	0.1	0.10	101	80-120	
Lead	mg/L	0.1	0.099	99	80-120	
Lithium	mg/L	0.1	0.098	98	80-120	
Molybdenum	mg/L	0.1	0.095	95	80-120	
Selenium	mg/L	0.1	0.097	97	80-120	
Thallium	mg/L	0.1	0.098	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3782738 3782739

Parameter	Units	92625189010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.098	0.10	97	101	75-125	3	20	
Arsenic	mg/L	ND	0.1	0.1	0.094	0.097	93	96	75-125	3	20	

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**QUALITY CONTROL DATA**

Project: McDonough AP-2-3/4 Detection-Revised Report

Pace Project No.: 92625623

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3782738 3782739												
Parameter	Units	92625189010		MS	MSD	MS		MSD		% Rec Limits	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec			
Barium	mg/L	0.043	0.1	0.1	0.13	0.14	90	93	75-125	2	20	
Beryllium	mg/L	ND	0.1	0.1	0.089	0.092	89	92	75-125	4	20	
Boron	mg/L	0.011J	1	1	0.92	0.98	91	97	75-125	6	20	
Cadmium	mg/L	ND	0.1	0.1	0.096	0.099	96	99	75-125	3	20	
Chromium	mg/L	ND	0.1	0.1	0.097	0.10	96	100	75-125	4	20	
Cobalt	mg/L	ND	0.1	0.1	0.098	0.10	98	103	75-125	4	20	
Lead	mg/L	ND	0.1	0.1	0.093	0.098	93	98	75-125	5	20	
Lithium	mg/L	0.0094J	0.1	0.1	0.099	0.10	90	94	75-125	4	20	
Molybdenum	mg/L	ND	0.1	0.1	0.095	0.10	95	100	75-125	6	20	
Selenium	mg/L	ND	0.1	0.1	0.094	0.095	94	95	75-125	1	20	
Thallium	mg/L	ND	0.1	0.1	0.094	0.098	94	98	75-125	4	20	

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### QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Detection-Revised Report  
Pace Project No.: 92625623

QC Batch: 725890 Analysis Method: EPA 7470A  
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury  
Laboratory: Pace Analytical Services - Peachtree Corners, GA  
Associated Lab Samples: 92625623001, 92625623002, 92625623003, 92625623004, 92625623005, 92625623006, 92625623007, 92625623008, 92625623009, 92625623010, 92625623011

METHOD BLANK: 3781485 Matrix: Water  
Associated Lab Samples: 92625623001, 92625623002, 92625623003, 92625623004, 92625623005, 92625623006, 92625623007, 92625623008, 92625623009, 92625623010, 92625623011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	09/27/22 11:00	

LABORATORY CONTROL SAMPLE: 3781486

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0022	88	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3781487 3781488

Parameter	Units	92624372011 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	0.0023	0.0018	94	71	75-125	28	20	M1,R1

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### QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Detection-Revised Report  
Pace Project No.: 92625623

QC Batch:	727398	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92625623015, 92625623016, 92625623017, 92625623018, 92625623019, 92625623020, 92625623021, 92625623022, 92626314001, 92626314002, 92626314003, 92626314004

METHOD BLANK: 3787972 Matrix: Water  
Associated Lab Samples: 92625623015, 92625623016, 92625623017, 92625623018, 92625623019, 92625623020, 92625623021, 92625623022, 92626314001, 92626314002, 92626314003, 92626314004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	10/03/22 13:17	

LABORATORY CONTROL SAMPLE: 3787973

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: 3787974 3787975

Parameter	Units	92625178002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	0.00016J	0.0025	0.0025	0.0022	0.0022	82	81	75-125	1	20	

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### QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Detection-Revised Report  
Pace Project No.: 92625623

QC Batch: 727400 Analysis Method: EPA 7470A  
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury  
Laboratory: Pace Analytical Services - Peachtree Corners, GA  
Associated Lab Samples: 92626314005, 92626314006

METHOD BLANK: 3787980 Matrix: Water  
Associated Lab Samples: 92626314005, 92626314006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	10/03/22 14:34	

LABORATORY CONTROL SAMPLE: 3787981

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0021	86	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3787982 3787983

Parameter	Units	92627093001		3787983		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	0.0019	0.0020	73	76	75-125	4	20	M1

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### QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Detection-Revised Report  
Pace Project No.: 92625623

QC Batch: 723649 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: 92625623001, 92625623002, 92625623003, 92625623004, 92625623005, 92625623006, 92625623007

METHOD BLANK: 3770574 Matrix: Water  
Associated Lab Samples: 92625623001, 92625623002, 92625623003, 92625623004, 92625623005, 92625623006, 92625623007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	10.0	09/16/22 14:32	

LABORATORY CONTROL SAMPLE: 3770575

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	376	94	80-120	

SAMPLE DUPLICATE: 3770576

Parameter	Units	92625621006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	119	120	1	10	

SAMPLE DUPLICATE: 3770577

Parameter	Units	92625178007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	214	213	0	10	

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### QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Detection-Revised Report  
Pace Project No.: 92625623

QC Batch: 724043      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: 92625623008, 92625623009, 92625623010, 92625623011

METHOD BLANK: 3772705      Matrix: Water  
Associated Lab Samples: 92625623008, 92625623009, 92625623010, 92625623011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	10.0	09/19/22 09:17	

LABORATORY CONTROL SAMPLE: 3772706

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	386	96	80-120	

SAMPLE DUPLICATE: 3772708

Parameter	Units	92625623010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	572	582	2	10	

SAMPLE DUPLICATE: 3772903

Parameter	Units	92625178010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	582	578	1	10	

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### QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Detection-Revised Report  
Pace Project No.: 92625623

QC Batch:	724233	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: 92625623015, 92625623016, 92625623017, 92625623018, 92625623019, 92625623020, 92625623021, 92625623022, 92626314001

METHOD BLANK: 3773743 Matrix: Water  
Associated Lab Samples: 92625623015, 92625623016, 92625623017, 92625623018, 92625623019, 92625623020, 92625623021, 92625623022, 92626314001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	10.0	09/20/22 13:21	

LABORATORY CONTROL SAMPLE: 3773744

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	346	86	80-120	

SAMPLE DUPLICATE: 3773745

Parameter	Units	92625623012 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	437	420	4	10	

SAMPLE DUPLICATE: 3773746

Parameter	Units	92625623021 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	440	405	8	10	

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### QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Detection-Revised Report

Pace Project No.: 92625623

QC Batch: 724377 Analysis Method: SM 2320B-2011  
 QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity  
 Laboratory: Pace Analytical Services - Asheville  
 Associated Lab Samples: 92625623001, 92625623002, 92625623003, 92625623004, 92625623005, 92625623018, 92625623019, 92625623020

METHOD BLANK: 3774158 Matrix: Water  
 Associated Lab Samples: 92625623001, 92625623002, 92625623003, 92625623004, 92625623005, 92625623018, 92625623019, 92625623020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	09/20/22 11:40	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	09/20/22 11:40	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	09/20/22 11:40	

LABORATORY CONTROL SAMPLE: 3774159

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: 3774160

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.1	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3774163 3774164

Parameter	Units	92625178004		3774163		3774164		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Result	MSD Result	MS Result	MSD Result				
Alkalinity, Total as CaCO3	mg/L	54.0	50	50	108	107	108	106	80-120	1	25

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3774267 3774268

Parameter	Units	92625623018		3774267		3774268		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Result	MSD Result	MS Result	MSD Result				
Alkalinity, Total as CaCO3	mg/L	33.6	50	50	77.4	78.7	88	90	80-120	2	25

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### QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Detection-Revised Report  
Pace Project No.: 92625623

QC Batch: 724379 Analysis Method: SM 2320B-2011  
QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity  
Laboratory: Pace Analytical Services - Asheville  
Associated Lab Samples: 92625623006, 92625623007, 92625623008, 92625623009, 92625623010, 92625623011, 92625623015, 92625623016, 92625623017

METHOD BLANK: 3774170 Matrix: Water  
Associated Lab Samples: 92625623006, 92625623007, 92625623008, 92625623009, 92625623010, 92625623011, 92625623015, 92625623016, 92625623017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	09/20/22 15:05	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	09/20/22 15:05	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	09/20/22 15:05	

LABORATORY CONTROL SAMPLE: 3774171

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.8	104	80-120	

LABORATORY CONTROL SAMPLE: 3774172

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.4	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3774173 3774174

Parameter	Units	92625623006 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Alkalinity, Total as CaCO3	mg/L	ND	50	50	50.8	51.4	102	103	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3774175 3774176

Parameter	Units	92625623011 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Alkalinity, Total as CaCO3	mg/L	ND	50	50	56.4	56.1	104	104	80-120	1	25	

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### QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Detection-Revised Report  
Pace Project No.: 92625623

QC Batch: 724723 Analysis Method: SM 2320B-2011  
QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity  
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92625623021, 92625623022

METHOD BLANK: 3775735 Matrix: Water  
Associated Lab Samples: 92625623021, 92625623022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	09/21/22 15:07	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	09/21/22 15:07	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	09/21/22 15:07	

LABORATORY CONTROL SAMPLE: 3775736

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.0	104	80-120	

LABORATORY CONTROL SAMPLE: 3775737

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3775740 3775741

Parameter	Units	92626676002		3775740		3775741		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					
Alkalinity, Total as CaCO3	mg/L	ND	50	50	50	47.0	47.5	94	95	80-120	1	25

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3776576 3776577

Parameter	Units	92625623021		3776576		3776577		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					
Alkalinity, Total as CaCO3	mg/L	31.6	50	50	50	83.5	83.3	104	103	80-120	0	25

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### QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Detection-Revised Report  
Pace Project No.: 92625623

QC Batch: 724724 Analysis Method: SM 2320B-2011  
QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity  
Laboratory: Pace Analytical Services - Asheville  
Associated Lab Samples: 92626314001, 92626314002, 92626314003, 92626314004

METHOD BLANK: 3775744 Matrix: Water  
Associated Lab Samples: 92626314001, 92626314002, 92626314003, 92626314004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	09/21/22 20:39	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	09/21/22 20:39	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	09/21/22 20:39	

LABORATORY CONTROL SAMPLE: 3775745

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.4	103	80-120	

LABORATORY CONTROL SAMPLE: 3775746

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.0	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3775747 3775748

Parameter	Units	92626314001		92626314002		92626314003		92626314004		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.				
Alkalinity, Total as CaCO3	mg/L	24.7	50	50	50	76.3	74.5	103	99	80-120	2	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3775749 3775750

Parameter	Units	92626676015		92626676016		92626676017		92626676018		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.				
Alkalinity, Total as CaCO3	mg/L	ND	50	50	50	52.0	51.2	103	102	80-120	2	25	

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### QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Detection-Revised Report  
Pace Project No.: 92625623

QC Batch: 725081 Analysis Method: SM 2320B-2011  
QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity  
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92626314005, 92626314006

METHOD BLANK: 3777562 Matrix: Water  
Associated Lab Samples: 92626314005, 92626314006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	09/23/22 14:29	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	09/23/22 14:29	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	09/23/22 14:29	

LABORATORY CONTROL SAMPLE: 3777563

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.5	101	80-120	

LABORATORY CONTROL SAMPLE: 3777564

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.4	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3777565 3777566

Parameter	Units	92626727004		3777565		3777566		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec				
Alkalinity, Total as CaCO3	mg/L	449	50	50	471	468	43	37	80-120	1	25 M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3777567 3777568

Parameter	Units	92626727005		3777567		3777568		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec				
Alkalinity, Total as CaCO3	mg/L	149	50	50	207	200	116	103	80-120	3	25

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### QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Detection-Revised Report

Pace Project No.: 92625623

QC Batch:	725355	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: 92626314002, 92626314003, 92626314004, 92626314005, 92626314006

METHOD BLANK: 3778984 Matrix: Water

Associated Lab Samples: 92626314002, 92626314003, 92626314004, 92626314005, 92626314006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	09/23/22 10:01	

LABORATORY CONTROL SAMPLE: 3778985

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	242	97	90-110	

SAMPLE DUPLICATE: 3778986

Parameter	Units	92626923001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	29.0	33.0	13	25	

SAMPLE DUPLICATE: 3778987

Parameter	Units	92626865001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2430	2480	2	25	

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### QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Detection-Revised Report  
Pace Project No.: 92625623

QC Batch: 723824 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: 92625623001, 92625623002, 92625623003, 92625623004, 92625623005, 92625623006

METHOD BLANK: 3771604 Matrix: Water  
Associated Lab Samples: 92625623001, 92625623002, 92625623003, 92625623004, 92625623005, 92625623006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/17/22 16:27	
Fluoride	mg/L	ND	0.10	0.050	09/17/22 16:27	
Sulfate	mg/L	ND	1.0	0.50	09/17/22 16:27	

LABORATORY CONTROL SAMPLE: 3771605

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.5	103	90-110	
Fluoride	mg/L	2.5	2.5	101	90-110	
Sulfate	mg/L	50	51.9	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3771606 3771607

Parameter	Units	92625657001		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	5.5	50	50	56.7	57.0	102	103	90-110	0	10		
Fluoride	mg/L	0.10	2.5	2.5	2.4	2.4	93	93	90-110	0	10		
Sulfate	mg/L	5.4	50	50	56.6	56.8	103	103	90-110	0	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3771608 3771609

Parameter	Units	92625178005		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	4.9	50	50	56.3	56.5	103	103	90-110	0	10		
Fluoride	mg/L	0.18	2.5	2.5	2.5	2.5	93	93	90-110	0	10		
Sulfate	mg/L	92.1	50	50	143	144	103	103	90-110	0	10		

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### QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Detection-Revised Report

Pace Project No.: 92625623

QC Batch: 723831	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: 92625623007

METHOD BLANK: 3771675 Matrix: Water

Associated Lab Samples: 92625623007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/20/22 14:18	
Fluoride	mg/L	ND	0.10	0.050	09/20/22 14:18	
Sulfate	mg/L	ND	1.0	0.50	09/20/22 14:18	

LABORATORY CONTROL SAMPLE: 3771676

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.0	102	90-110	
Fluoride	mg/L	2.5	2.4	95	90-110	
Sulfate	mg/L	50	51.3	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3771677 3771678

Parameter	Units	92625623007		3771677		3771678		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec				
Chloride	mg/L	ND	50	50	58.2	57.9	116	116	1	10	M1
Fluoride	mg/L	ND	2.5	2.5	2.9	2.8	114	112	2	10	M1
Sulfate	mg/L	ND	50	50	56.3	57.1	112	114	1	10	M1

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### QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Detection-Revised Report  
Pace Project No.: 92625623

QC Batch: 724055 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: 92625623008, 92625623009, 92625623010, 92625623011

METHOD BLANK: 3772745 Matrix: Water  
Associated Lab Samples: 92625623008, 92625623009, 92625623010, 92625623011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/19/22 00:00	
Fluoride	mg/L	ND	0.10	0.050	09/19/22 00:00	
Sulfate	mg/L	ND	1.0	0.50	09/19/22 00:00	

LABORATORY CONTROL SAMPLE: 3772746

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.9	100	90-110	
Fluoride	mg/L	2.5	2.6	104	90-110	
Sulfate	mg/L	50	50.9	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3772749 3772750

Parameter	Units	92625178011		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	10.3	50	50	61.5	61.6	102	103	90-110	0	10		
Fluoride	mg/L	0.38	2.5	2.5	3.0	3.0	106	107	90-110	1	10		
Sulfate	mg/L	228	50	50	276	279	97	102	90-110	1	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3772755 3772756

Parameter	Units	92625980001		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	2.6	50	50	53.2	53.2	101	101	90-110	0	10		
Fluoride	mg/L	ND	2.5	2.5	2.6	2.6	101	102	90-110	0	10		
Sulfate	mg/L	5.5	50	50	56.9	56.6	103	102	90-110	0	10		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Detection-Revised Report  
Pace Project No.: 92625623

QC Batch:	724437	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: 92625623015, 92625623016, 92625623017, 92625623018, 92625623019, 92625623020, 92625623021, 92625623022, 92626314001

METHOD BLANK: 3774398 Matrix: Water  
Associated Lab Samples: 92625623015, 92625623016, 92625623017, 92625623018, 92625623019, 92625623020, 92625623021, 92625623022, 92626314001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/20/22 18:23	
Fluoride	mg/L	ND	0.10	0.050	09/20/22 18:23	
Sulfate	mg/L	ND	1.0	0.50	09/20/22 18:23	

LABORATORY CONTROL SAMPLE: 3774399

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.4	99	90-110	
Fluoride	mg/L	2.5	2.5	101	90-110	
Sulfate	mg/L	50	50.2	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3774400 3774401

Parameter	Units	92626469002		3774401		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	105	50	50	159	159	108	107	90-110	0	10
Fluoride	mg/L	0.49	2.5	2.5	3.1	3.2	106	107	90-110	1	10
Sulfate	mg/L	31.2	50	50	82.4	82.6	102	103	90-110	0	10

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3774402 3774403

Parameter	Units	92625623020		3774403		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	26.2	50	50	77.4	77.1	102	102	90-110	0	10
Fluoride	mg/L	0.69	2.5	2.5	3.2	3.3	102	104	90-110	1	10
Sulfate	mg/L	462	50	50	509	510	92	95	90-110	0	10

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Detection-Revised Report  
Pace Project No.: 92625623

QC Batch: 724821 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: 92626314002, 92626314003, 92626314004

METHOD BLANK: 3776265 Matrix: Water  
Associated Lab Samples: 92626314002, 92626314003, 92626314004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/22/22 02:00	
Fluoride	mg/L	ND	0.10	0.050	09/22/22 02:00	
Sulfate	mg/L	ND	1.0	0.50	09/22/22 02:00	

LABORATORY CONTROL SAMPLE: 3776266

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.4	97	90-110	
Fluoride	mg/L	2.5	2.5	102	90-110	
Sulfate	mg/L	50	48.8	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3776267 3776268

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92625186007 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	369	50	50	418	412	98	87	90-110	1	10	M1	
Fluoride	mg/L	15.4	2.5	2.5	17.5	17.2	81	72	90-110	1	10	M1	
Sulfate	mg/L	72.6	50	50	115	113	85	81	90-110	1	10	M1	

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### QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Detection-Revised Report  
Pace Project No.: 92625623

QC Batch: 725140 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: 92626314005, 92626314006

METHOD BLANK: 3777923 Matrix: Water  
Associated Lab Samples: 92626314005, 92626314006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/22/22 20:18	
Fluoride	mg/L	ND	0.10	0.050	09/22/22 20:18	
Sulfate	mg/L	ND	1.0	0.50	09/22/22 20:18	

LABORATORY CONTROL SAMPLE: 3777924

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	47.3	95	90-110	
Fluoride	mg/L	2.5	2.4	97	90-110	
Sulfate	mg/L	50	47.6	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3777925 3777926

Parameter	Units	92626959007		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	12.9	50	50	61.1	61.1	96	96	90-110	0	10		
Fluoride	mg/L	0.23	2.5	2.5	2.7	2.7	98	97	90-110	1	10		
Sulfate	mg/L	31.0	50	50	79.4	79.5	97	97	90-110	0	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3777927 3777928

Parameter	Units	92626959011		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	15.2	50	50	63.1	63.7	96	97	90-110	1	10		
Fluoride	mg/L	0.38	2.5	2.5	2.9	2.9	101	102	90-110	1	10		
Sulfate	mg/L	ND	50	50	47.9	48.6	95	96	90-110	1	10		

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## QUALIFIERS

Project: McDonough AP-2-3/4 Detection-Revised Report

Pace Project No.: 92625623

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### 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 Detection-Revised Report  
Pace Project No.: 92625623

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92625623001	DGWC-14				
92625623002	DGWC-15				
92625623003	DGWC-42				
92625623004	DGWC-47				
92625623005	DGWC-48				
92625623008	DGWC-5				
92625623009	DGWC-17				
92625623010	DGWC-19				
92625623015	DGWC-8				
92625623016	DGWC-10				
92625623017	DGWC-11				
92625623018	DGWC-12				
92625623019	DGWC-13				
92625623020	DGWC-20				
92625623021	DGWC-21				
92626314001	DGWC-22				
92626314002	DGWC-4				
92626314003	DGWC-9				
92626314005	DGWC-2				
92626314006	DGWC-23				
92625623001	DGWC-14	EPA 3010A	725787	EPA 6010D	725888
92625623002	DGWC-15	EPA 3010A	725787	EPA 6010D	725888
92625623003	DGWC-42	EPA 3010A	725787	EPA 6010D	725888
92625623004	DGWC-47	EPA 3010A	725787	EPA 6010D	725888
92625623005	DGWC-48	EPA 3010A	725787	EPA 6010D	725888
92625623006	EB-3	EPA 3010A	725787	EPA 6010D	725888
92625623007	FB-4	EPA 3010A	725787	EPA 6010D	725888
92625623008	DGWC-5	EPA 3010A	725787	EPA 6010D	725888
92625623009	DGWC-17	EPA 3010A	725787	EPA 6010D	725888
92625623010	DGWC-19	EPA 3010A	725787	EPA 6010D	725888
92625623011	DUP-5	EPA 3010A	725787	EPA 6010D	725888
92625623015	DGWC-8	EPA 3010A	725787	EPA 6010D	725888
92625623016	DGWC-10	EPA 3010A	725787	EPA 6010D	725888
92625623017	DGWC-11	EPA 3010A	725787	EPA 6010D	725888
92625623018	DGWC-12	EPA 3010A	725787	EPA 6010D	725888
92625623019	DGWC-13	EPA 3010A	725787	EPA 6010D	725888
92625623020	DGWC-20	EPA 3010A	725787	EPA 6010D	725888
92625623021	DGWC-21	EPA 3010A	726415	EPA 6010D	726515
92625623022	EB-5	EPA 3010A	726415	EPA 6010D	726515
92626314001	DGWC-22	EPA 3010A	726415	EPA 6010D	726515
92626314002	DGWC-4	EPA 3010A	726415	EPA 6010D	726515
92626314003	DGWC-9	EPA 3010A	726415	EPA 6010D	726515
92626314004	DUP-6	EPA 3010A	726415	EPA 6010D	726515
92626314005	DGWC-2	EPA 3010A	726808	EPA 6010D	726883
92626314006	DGWC-23	EPA 3010A	726808	EPA 6010D	726883
92625623001	DGWC-14	EPA 3005A	725627	EPA 6020B	725817
92625623002	DGWC-15	EPA 3005A	725627	EPA 6020B	725817

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: McDonough AP-2-3/4 Detection-Revised Report

Pace Project No.: 92625623

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92625623003	DGWC-42	EPA 3005A	725627	EPA 6020B	725817
92625623004	DGWC-47	EPA 3005A	725627	EPA 6020B	725817
92625623005	DGWC-48	EPA 3005A	725627	EPA 6020B	725817
92625623006	EB-3	EPA 3005A	725627	EPA 6020B	725817
92625623007	FB-4	EPA 3005A	725627	EPA 6020B	725817
92625623008	DGWC-5	EPA 3005A	725627	EPA 6020B	725817
92625623009	DGWC-17	EPA 3005A	725627	EPA 6020B	725817
92625623010	DGWC-19	EPA 3005A	725788	EPA 6020B	725909
92625623011	DUP-5	EPA 3005A	725788	EPA 6020B	725909
92625623015	DGWC-8	EPA 3005A	725788	EPA 6020B	725909
92625623016	DGWC-10	EPA 3005A	725788	EPA 6020B	725909
92625623017	DGWC-11	EPA 3005A	725788	EPA 6020B	725909
92625623018	DGWC-12	EPA 3005A	725788	EPA 6020B	725909
92625623019	DGWC-13	EPA 3005A	725788	EPA 6020B	725909
92625623020	DGWC-20	EPA 3005A	725788	EPA 6020B	725909
92625623021	DGWC-21	EPA 3005A	725788	EPA 6020B	725909
92625623022	EB-5	EPA 3005A	726205	EPA 6020B	726325
92626314001	DGWC-22	EPA 3005A	726205	EPA 6020B	726325
92626314002	DGWC-4	EPA 3005A	726205	EPA 6020B	726325
92626314003	DGWC-9	EPA 3005A	726205	EPA 6020B	726325
92626314004	DUP-6	EPA 3005A	726205	EPA 6020B	726325
92626314005	DGWC-2	EPA 3005A	726205	EPA 6020B	726325
92626314006	DGWC-23	EPA 3005A	726205	EPA 6020B	726325
92625623001	DGWC-14	EPA 7470A	725890	EPA 7470A	726012
92625623002	DGWC-15	EPA 7470A	725890	EPA 7470A	726012
92625623003	DGWC-42	EPA 7470A	725890	EPA 7470A	726012
92625623004	DGWC-47	EPA 7470A	725890	EPA 7470A	726012
92625623005	DGWC-48	EPA 7470A	725890	EPA 7470A	726012
92625623006	EB-3	EPA 7470A	725890	EPA 7470A	726012
92625623007	FB-4	EPA 7470A	725890	EPA 7470A	726012
92625623008	DGWC-5	EPA 7470A	725890	EPA 7470A	726012
92625623009	DGWC-17	EPA 7470A	725890	EPA 7470A	726012
92625623010	DGWC-19	EPA 7470A	725890	EPA 7470A	726012
92625623011	DUP-5	EPA 7470A	725890	EPA 7470A	726012
92625623015	DGWC-8	EPA 7470A	727398	EPA 7470A	727474
92625623016	DGWC-10	EPA 7470A	727398	EPA 7470A	727474
92625623017	DGWC-11	EPA 7470A	727398	EPA 7470A	727474
92625623018	DGWC-12	EPA 7470A	727398	EPA 7470A	727474
92625623019	DGWC-13	EPA 7470A	727398	EPA 7470A	727474
92625623020	DGWC-20	EPA 7470A	727398	EPA 7470A	727474
92625623021	DGWC-21	EPA 7470A	727398	EPA 7470A	727474
92625623022	EB-5	EPA 7470A	727398	EPA 7470A	727474
92626314001	DGWC-22	EPA 7470A	727398	EPA 7470A	727474
92626314002	DGWC-4	EPA 7470A	727398	EPA 7470A	727474
92626314003	DGWC-9	EPA 7470A	727398	EPA 7470A	727474
92626314004	DUP-6	EPA 7470A	727398	EPA 7470A	727474

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: McDonough AP-2-3/4 Detection-Revised Report

Pace Project No.: 92625623

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92626314005	DGWC-2	EPA 7470A	727400	EPA 7470A	727475
92626314006	DGWC-23	EPA 7470A	727400	EPA 7470A	727475
92625623001	DGWC-14	SM 2540C-2015	723649		
92625623002	DGWC-15	SM 2540C-2015	723649		
92625623003	DGWC-42	SM 2540C-2015	723649		
92625623004	DGWC-47	SM 2540C-2015	723649		
92625623005	DGWC-48	SM 2540C-2015	723649		
92625623006	EB-3	SM 2540C-2015	723649		
92625623007	FB-4	SM 2540C-2015	723649		
92625623008	DGWC-5	SM 2540C-2015	724043		
92625623009	DGWC-17	SM 2540C-2015	724043		
92625623010	DGWC-19	SM 2540C-2015	724043		
92625623011	DUP-5	SM 2540C-2015	724043		
92625623015	DGWC-8	SM 2540C-2015	724233		
92625623016	DGWC-10	SM 2540C-2015	724233		
92625623017	DGWC-11	SM 2540C-2015	724233		
92625623018	DGWC-12	SM 2540C-2015	724233		
92625623019	DGWC-13	SM 2540C-2015	724233		
92625623020	DGWC-20	SM 2540C-2015	724233		
92625623021	DGWC-21	SM 2540C-2015	724233		
92625623022	EB-5	SM 2540C-2015	724233		
92626314001	DGWC-22	SM 2540C-2015	724233		
92625623001	DGWC-14	SM 2320B-2011	724377		
92625623002	DGWC-15	SM 2320B-2011	724377		
92625623003	DGWC-42	SM 2320B-2011	724377		
92625623004	DGWC-47	SM 2320B-2011	724377		
92625623005	DGWC-48	SM 2320B-2011	724377		
92625623006	EB-3	SM 2320B-2011	724379		
92625623007	FB-4	SM 2320B-2011	724379		
92625623008	DGWC-5	SM 2320B-2011	724379		
92625623009	DGWC-17	SM 2320B-2011	724379		
92625623010	DGWC-19	SM 2320B-2011	724379		
92625623011	DUP-5	SM 2320B-2011	724379		
92625623015	DGWC-8	SM 2320B-2011	724379		
92625623016	DGWC-10	SM 2320B-2011	724379		
92625623017	DGWC-11	SM 2320B-2011	724379		
92625623018	DGWC-12	SM 2320B-2011	724377		
92625623019	DGWC-13	SM 2320B-2011	724377		
92625623020	DGWC-20	SM 2320B-2011	724377		
92625623021	DGWC-21	SM 2320B-2011	724723		
92625623022	EB-5	SM 2320B-2011	724723		
92626314001	DGWC-22	SM 2320B-2011	724724		
92626314002	DGWC-4	SM 2320B-2011	724724		
92626314003	DGWC-9	SM 2320B-2011	724724		
92626314004	DUP-6	SM 2320B-2011	724724		

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: McDonough AP-2-3/4 Detection-Revised Report

Pace Project No.: 92625623

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92626314005	DGWC-2	SM 2320B-2011	725081		
92626314006	DGWC-23	SM 2320B-2011	725081		
92626314002	DGWC-4	SM 2540C-2011	725355		
92626314003	DGWC-9	SM 2540C-2011	725355		
92626314004	DUP-6	SM 2540C-2011	725355		
92626314005	DGWC-2	SM 2540C-2011	725355		
92626314006	DGWC-23	SM 2540C-2011	725355		
92625623001	DGWC-14	EPA 300.0 Rev 2.1 1993	723824		
92625623002	DGWC-15	EPA 300.0 Rev 2.1 1993	723824		
92625623003	DGWC-42	EPA 300.0 Rev 2.1 1993	723824		
92625623004	DGWC-47	EPA 300.0 Rev 2.1 1993	723824		
92625623005	DGWC-48	EPA 300.0 Rev 2.1 1993	723824		
92625623006	EB-3	EPA 300.0 Rev 2.1 1993	723824		
92625623007	FB-4	EPA 300.0 Rev 2.1 1993	723831		
92625623008	DGWC-5	EPA 300.0 Rev 2.1 1993	724055		
92625623009	DGWC-17	EPA 300.0 Rev 2.1 1993	724055		
92625623010	DGWC-19	EPA 300.0 Rev 2.1 1993	724055		
92625623011	DUP-5	EPA 300.0 Rev 2.1 1993	724055		
92625623015	DGWC-8	EPA 300.0 Rev 2.1 1993	724437		
92625623016	DGWC-10	EPA 300.0 Rev 2.1 1993	724437		
92625623017	DGWC-11	EPA 300.0 Rev 2.1 1993	724437		
92625623018	DGWC-12	EPA 300.0 Rev 2.1 1993	724437		
92625623019	DGWC-13	EPA 300.0 Rev 2.1 1993	724437		
92625623020	DGWC-20	EPA 300.0 Rev 2.1 1993	724437		
92625623021	DGWC-21	EPA 300.0 Rev 2.1 1993	724437		
92625623022	EB-5	EPA 300.0 Rev 2.1 1993	724437		
92626314001	DGWC-22	EPA 300.0 Rev 2.1 1993	724437		
92626314002	DGWC-4	EPA 300.0 Rev 2.1 1993	724821		
92626314003	DGWC-9	EPA 300.0 Rev 2.1 1993	724821		
92626314004	DUP-6	EPA 300.0 Rev 2.1 1993	724821		
92626314005	DGWC-2	EPA 300.0 Rev 2.1 1993	725140		
92626314006	DGWC-23	EPA 300.0 Rev 2.1 1993	725140		

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.



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  Knoxville

Sample Condition Upon Receipt

Client Name:

GA Power

Project #:

WO#: 92625623



Courier:  Commercial

Fed Ex  UPS  USPS  Client  Pace  Other: \_\_\_\_\_

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 9/14/22 JAR

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: 3.2

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): 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.
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>uvv</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 facts must be completed accurately.

**Section A**  
Required Client Information:

Company: Georgia Power - Coal Combustion Residuals  
 Address: 2400 Manor Road  
 Atlanta, GA 30338  
 Email: JALCOCKER@SOUTHERNCO.COM  
 Phone: (470) 620-4176  
 Requested Due Date: 10 Day TAT

**Section B**  
Required Project Information:

Report To: Laura Collier  
 Copy To: Collier  
 Purchase Order #: Plant MCO AP-2, 3rd Detention  
 Project Name: Monitoring Well Network  
 Project #: GL10049022

**Section C**  
Invoice Information:

Member: sctimcoce@southenco.com  
 Company Name:  
 Address:  
 P.O. Box:  
 P.O. Project Manager: Nicole O'Leary  
 Price Profile #: Requested Analysis Filtered (Y/N)

Regulatory Agency

State / Location  
GA

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 /, -, ) Sample IDs must be unique	MATRIX Droplet Water Waste Waste Water Process Oil Wine Air Other Tanks	CODE DWR WWT WW P DL WSP WAF OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (O-ORAB C-COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved - Ice	Preservatives						Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	pH = 5.71, Fe2 = 0.0 mg/L pH = 5.82, Fe2 = 0.0 mg/L pH = 5.04, Fe2 = 0.0 mg/L pH = 4.15, Fe2 = 0.5 mg/L pH = 4.25, Fe2 = 2.5 mg/L							
											H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol					Other	App IIRV Total Metals	Cl, F, SO4, TDS	Radium 226/228	Mg, Na, K	CO3+HCO2	Fe Total, Fe 3+
1	DGWC-14			WG	G	9/13/2022	16:11		6	3	3																
2	DGWC-15			WG	G	9/13/2022	16:00		6	3	3																
3	DGWC-42			WG	G	9/13/2022	10:00		6	3	3																
4	DGWC-47			WG	G	9/13/2022	16:05		6	3	3																
6	DGWC-48			WG	G	9/13/2022	12:05		6	3	3																
7	EB-3			WG	G	9/13/2022	12:05		6	3	3																
8	FB-4			WG	G	9/13/2022	10:00		6	3	3																
9																											
10																											
11																											
12																											
13																											
14																											

RELINQUISHED BY / AFFILIATION: Joe Joseph  
 DATE: 9-14-22  
 TIME: 8:53

ACCEPTED BY / AFFILIATION: [Signature]  
 DATE: 9/14/2022  
 TIME: 8:53

DATE signed: 09-14-22


TEMP in C

Received on Ice (Y/N)

Custody Sealed Cooler (Y/N)

Samples Intact (Y/N)



	Document Name: <b>Sample Condition Upon Receipt (SCUR)</b>	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  Knoxville

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

**WO#: 92625623**

PM: NMG Due Date: 09/28/22  
CLIENT: GA-GA Power

Courier:  Commercial  Fed Ex  Pace  UPS  USPS  Other:  Client

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 9/15/22  
COB

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

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

Biological Tissue Frozen?  Yes  No  N/A

Cooler Temp: 3.8 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): 3.8

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.
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 type="checkbox"/> N/A	

**COMMENTS/SAMPLE DISCREPANCY**

Field Data Required?  Yes  No

\_\_\_\_\_

**CLIENT NOTIFICATION/RESOLUTION**

Lot ID of split containers:

\_\_\_\_\_

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# : 92625623**

PM: NMG

Due Date: 09/28/22

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)	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																														
	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).







DC#\_Title: ENV-FRM-HUN1-0083 v01\_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Me...

Sample Condition Upon Receipt

Client Name: Georgia Power

Project #

WO#: 92625623

PM: NMG Due Date: 09/28/22 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: 9/17/22 JM

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?  Yes  No  N/A

Thermometer:  IR Gun ID: 230 Correction Factor: 3.3 Type of Ice:  Wet  Blue  None

Cooler Temp: 3.3 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): 3.3

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

Chain of Custody Present?	Yes	No	N/A	1.	Comments/Discrepancy:
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: WG					
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: \_\_\_\_\_



DC#\_Title: ENV-FRM-HUN1-0083 v01\_Sample Condition Upon Receipt

Effective Date: 05/12/2022

WO#: 92625623

PM: NMG

Due Date: 09/28/22

CLIENT: GA-GA Power

\*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 #

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)	SPST-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)	
1	2	1																						2				
2	2	1																						4				
3	2	1																						2				
4	2	1																						2				
5	2	1																						2				
6	2	1																						2				
7	2	1																						2				
8	2	1																						2				
9																								2				
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.





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: Georgia Power

Project

WO#: 92625623

Courier:  Commercial  Fed Ex  Pace  UPS  USPS  Client  Other:

PM: NMG Due Date: 09/28/22 CLIENT: GA-GA Power

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 9/17/22 Jm

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Thermometer:  IR Gun ID: 230 Correction Factor: 3.3 Type of Ice:  Wet  Blue  None

Biological Tissue Frozen?  Yes  No  N/A

Cooler Temp: 3.3 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): 3.3

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: WG		
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#: 92625623

PM: NMG

Due Date: 09/28/22

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 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)	SPST-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)		
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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.





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:

GA Power

Project

WO#: 92625623

PM: NMG

Due Date: 09/28/22

CLIENT: GA-GA Power

Courier:  Commercial  Fed Ex  Pace  UPS  USPS  Other:  Client

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 9/20/22 EJA

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:

3.3

Correction Factor:

Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C):

3.3

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 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

Project #

WO#: 92625623

PM: NMG

Due Date: 09/28/22

CLIENT: GA-GA Power

\*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

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-W/de-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-)	VSGU-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 DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.





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:

Georgia Power

Project

WO#: 92625623

PM: NMG

Due Date: 09/28/22

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: 9/24/22 AT

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:

4.1 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): 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 checked="" type="checkbox"/> Yes <input 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: W Cr	
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

Pr **WO# : 92625623**  
 PM: NMG Due Date: 09/28/22 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) (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)	DG9A-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-)	VSGU-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 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.

<b>Section A</b> Required Client Information:	<b>Section B</b> Required Project Information:	<b>Section C</b> Invoice Information:
Company: Georgia Power - Coal Combustion Residuals	Report To: Lauren Cochrane	Attention: scarrinocasa@scarrinocasa.com
Address: 2460 Manor Road	Copy To: Cochrane	Company Name:
Atlanta, GA 30339	Purchase Order #:	Address:
Email: laurencochrane@scarrinocasa.com	Project Name: Plant MGD AP-2, 3rd Monitoring Well Network	Project Manager: Nicole D'Ono
Phone: (417) 630-6178	Requested Due Date: 10 Day TAT	Purch Price #:

Page: 1 of 1

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	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Regulatory Agency	State / Location
							H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other						
1	DGWC-2	G	9/20/2022	13:16		5	3	3	3										
2	DGWC-23	C	9/20/2022	10:42		8	3	5											
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ADDITIONAL COMMENTS Relinquished by / Affiliation: <i>Go LLC</i> Date: <i>09/21/22</i> Time: <i>15:05</i> Accepted by / Affiliation: <i>[Signature]</i> Date: <i>9/21/22</i> Time: <i>1505</i>	SAMPLE CONDITIONS Received on Ice (Y/N) Custody Sealed Cooler (Y/N) Samples Intact (Y/N)
--	---

DATE Signed: \_\_\_\_\_



# 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: laucoker@southernco.com  
 Phone: (470) 620-6176  
 Requested Due Date: 10 Day TAT

## Section B

### Required Project Information:

Report To: Lauren Coker  
 Copy To: Golder  
 Purchase Order #: Plant McD AP-2, 3/4 Detection Monitoring Well Network  
 Project Name: Nicole D Oleo  
 Project #: GL166849622

## Section C

### Invoice Information:

Attention: scsinvoices@southernco.com  
 Company Name:  
 Address:  
 Pace Quote:  
 Pace Project Manager:  
 Pace Profile #:

Regulatory Agency  
 State / Location  
 GA

ITEM #	MATRIX CODE (see valid codes to left)	DATE	TIME	SMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	# OF CONTAINERS	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)				
								Analyses Test	Y	N	Y	N	Y	N	Y	N	Y		N	Y	N	
1	DGWC-14	9/13/2022	16:11	G	9/13/2022	16:11	6	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	Fe Total, Fe 3+	pH = 5.71, Fe2 = 0.0 mg/L
2	DGWC-15	9/13/2022	16:00	G	9/13/2022	16:00	6															pH = 5.82, Fe2 = 0.0 mg/L
3	DGWC-42	9/13/2022	10:00	G	9/13/2022	10:00	6															pH = 5.04, Fe2 = 0.0 mg/L
4	DGWC-47	9/13/2022	16:05	G	9/13/2022	16:05	6															pH = 4.15, Fe2 = 0.5 mg/L
6	DGWC-48	9/13/2022	12:05	G	9/13/2022	12:05	6															pH = 4.25, Fe2 = 2.5 mg/L
7	EB-3	9/13/2022	12:05	G	9/13/2022	12:05	6															
8	FB-4	9/13/2022	10:00	G	9/13/2022	10:00	6															
9																						
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ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	TEMP in C	Received on	Custody (Y/N)	Sealed Cooler (Y/N)	Samples Intact (Y/N)

December 06, 2022

Andrea McClure  
WSP/Golder  
5170 Peachtree Road  
Building 100, Suite 300  
Atlanta, GA 30341

RE: Project: McDonough AP-2-3/4 Detect RADs-Revised Report  
Pace Project No.: 92625627

Dear Andrea McClure:

Enclosed are the analytical results for sample(s) received by the laboratory between September 14, 2022 and September 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

(Greensburg, PA) - Revision 1 - This report replaces the October 14, 2022 report. This project was revised on December 2, 2022 to add Radium-226+Radium-228 calculation.

Revision 1: Issued on 11/4/22 to include Radium QC Sheets.

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

Sincerely,



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

Enclosures

cc: Joju Abraham, Georgia Power-CCR  
Stephen Benda, Southern Company  
Noelia Gangi, Georgia Power  
Daniela Herrera, Golder

Ben Hodges, Georgia Power  
Kristen Jurinko  
Laura Midkiff, Georgia Power  
Karim Minkara, Golder Associates - Atlanta



## REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.

December 06, 2022

Page 2

cc: J. Shelby Mobley, Southern Company  
Charles Norton, Southern Company  
Ms. Lauren Petty, Southern Company  
Dawn Prell, Golder Associates Inc.  
Michael Smilley, Georgia Power  
Yong Cheng Soo, WSP/Golder  
Tina Sullivan, ERM



## **REPORT OF LABORATORY ANALYSIS**

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## CERTIFICATIONS

Project: McDonough AP-2-3/4 Detect RADs-Revised Report  
Pace Project No.: 92625627

---

### **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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## REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.

### SAMPLE SUMMARY

Project: McDonough AP-2-3/4 Detect RADs-Revised Report

Pace Project No.: 92625627

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92625627001	DGWC-14	Water	09/13/22 16:11	09/14/22 09:53
92625627002	DGWC-15	Water	09/13/22 16:00	09/14/22 09:53
92625627003	DGWC-42	Water	09/13/22 10:00	09/14/22 09:53
92625627004	DGWC-47	Water	09/13/22 16:05	09/14/22 09:53
92625627005	DGWC-48	Water	09/13/22 12:05	09/14/22 09:53
92625627006	EB-3	Water	09/13/22 12:05	09/14/22 09:53
92625627007	FB-4	Water	09/13/22 10:00	09/14/22 09:53
92625627008	DGWC-5	Water	09/14/22 13:25	09/15/22 08:20
92625627009	DGWC-17	Water	09/14/22 14:40	09/15/22 08:20
92625627010	DGWC-19	Water	09/14/22 12:00	09/15/22 08:20
92625627011	DUP-5	Water	09/14/22 00:00	09/15/22 08:20
92625627012	DGWC-22	Water	09/16/22 12:01	09/16/22 16:30
92625627013	DGWC-8	Water	09/15/22 13:18	09/16/22 16:30
92625627014	DGWC-10	Water	09/15/22 10:25	09/16/22 16:30
92625627015	DGWC-11	Water	09/15/22 13:45	09/16/22 16:30
92625627016	DGWC-12	Water	09/15/22 15:20	09/16/22 16:30
92625627017	DGWC-13	Water	09/15/22 09:35	09/16/22 16:30
92625627018	DGWC-20	Water	09/15/22 11:45	09/16/22 16:30
92625627019	DGWC-21	Water	09/15/22 16:10	09/16/22 16:30
92625627020	EB-5	Water	09/15/22 11:45	09/16/22 16:30
92625627021	DGWC-4	Water	09/19/22 13:26	09/20/22 09:50
92625627022	DGWC-9	Water	09/19/22 11:49	09/20/22 09:50
92625627023	Dup-6	Water	09/19/22 00:00	09/20/22 09:50
92626980001	DGWC-2	Water	09/20/22 13:16	09/21/22 15:05
92626980002	DGWC-23	Water	09/20/22 10:42	09/21/22 15:05

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### SAMPLE ANALYTE COUNT

Project: McDonough AP-2-3/4 Detect RADs-Revised Report  
Pace Project No.: 92625627

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92625627001	DGWC-14	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625627002	DGWC-15	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625627003	DGWC-42	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625627004	DGWC-47	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625627005	DGWC-48	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625627006	EB-3	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625627007	FB-4	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625627008	DGWC-5	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625627009	DGWC-17	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625627010	DGWC-19	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625627011	DUP-5	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625627012	DGWC-22	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625627013	DGWC-8	EPA 9315	RMS	1	PASI-PA

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### SAMPLE ANALYTE COUNT

Project: McDonough AP-2-3/4 Detect RADs-Revised Report  
Pace Project No.: 92625627

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92625627014	DGWC-10	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
92625627015	DGWC-11	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
92625627016	DGWC-12	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
92625627017	DGWC-13	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
92625627018	DGWC-20	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
92625627019	DGWC-21	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
92625627020	EB-5	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
92625627021	DGWC-4	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
92625627022	DGWC-9	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
92625627023	Dup-6	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
92626980001	DGWC-2	EPA 9320	LAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
92626980002	DGWC-23	EPA 9320	LAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA

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**SAMPLE ANALYTE COUNT**

Project: McDonough AP-2-3/4 Detect RADs-Revised Report  
Pace Project No.: 92625627

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		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 Detect RADs-Revised Report

Pace Project No.: 92625627

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: DGWC-14</b> <b>Lab ID: 92625627001</b> Collected: 09/13/22 16:11      Received: 09/14/22 09:53      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.123 ± 0.0988 (0.173)</b> <b>C:94% T:NA</b>	pCi/L	10/12/22 20:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.415 ± 0.429 (0.884)</b> <b>C:63% T:88%</b>	pCi/L	10/10/22 13:31	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.538 ± 0.528 (1.06)</b>	pCi/L	10/14/22 17:44	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Detect RADs-Revised Report

Pace Project No.: 92625627

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: DGWC-15</b> <b>Lab ID: 92625627002</b> Collected: 09/13/22 16:00      Received: 09/14/22 09:53      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.234 ± 0.131 (0.194)</b> <b>C:92% T:NA</b>	pCi/L	10/12/22 20:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.527 ± 0.477 (0.969)</b> <b>C:66% T:86%</b>	pCi/L	10/10/22 13:32	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.761 ± 0.608 (1.16)</b>	pCi/L	10/14/22 17:44	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Detect RADs-Revised Report

Pace Project No.: 92625627

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: DGWC-42</b> <b>Lab ID: 92625627003</b> Collected: 09/13/22 10:00      Received: 09/14/22 09:53      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.0766 ± 0.0817 (0.156)</b> <b>C:96% T:NA</b>	pCi/L	10/12/22 20:23	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.752 ± 0.454 (0.832)</b> <b>C:65% T:91%</b>	pCi/L	10/10/22 13:32	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.829 ± 0.536 (0.988)</b>	pCi/L	10/14/22 17:44	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Detect RADs-Revised Report

Pace Project No.: 92625627

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: DGWC-47</b> <b>Lab ID: 92625627004</b> Collected: 09/13/22 16:05      Received: 09/14/22 09:53      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.425 ± 0.166 (0.176)</b> <b>C:94% T:NA</b>	pCi/L	10/12/22 20:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>1.54 ± 0.543 (0.753)</b> <b>C:73% T:89%</b>	pCi/L	10/10/22 13:32	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.97 ± 0.709 (0.929)</b>	pCi/L	10/14/22 17:44	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Detect RADs-Revised Report

Pace Project No.: 92625627

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: DGWC-48</b> <b>Lab ID: 92625627005</b> Collected: 09/13/22 12:05      Received: 09/14/22 09:53      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.157 ± 0.104 (0.160)</b> <b>C:98% T:NA</b>	pCi/L	10/12/22 19:34	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>1.26 ± 0.559 (0.905)</b> <b>C:63% T:89%</b>	pCi/L	10/10/22 13:32	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.42 ± 0.663 (1.07)</b>	pCi/L	10/14/22 17:44	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Detect RADs-Revised Report

Pace Project No.: 92625627

**Sample: EB-3**      **Lab ID: 92625627006**      Collected: 09/13/22 12:05      Received: 09/14/22 09:53      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	<b>0.0381 ± 0.0757 (0.175)</b> <b>C:93% T:NA</b>	pCi/L	10/12/22 19:34	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.805 ± 0.485 (0.897)</b> <b>C:63% T:93%</b>	pCi/L	10/10/22 13:32	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.843 ± 0.561 (1.07)</b>	pCi/L	10/14/22 17:44	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Detect RADs-Revised Report

Pace Project No.: 92625627

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: FB-4</b> <b>Lab ID: 92625627007</b> Collected: 09/13/22 10:00      Received: 09/14/22 09:53      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.0686 ± 0.0781 (0.153)</b> <b>C:94% T:NA</b>	pCi/L	10/12/22 21:40	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.524 ± 0.541 (1.13)</b> <b>C:72% T:69%</b>	pCi/L	10/10/22 15:40	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.593 ± 0.619 (1.28)</b>	pCi/L	10/14/22 17:44	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Detect RADs-Revised Report

Pace Project No.: 92625627

**Sample: DGWC-5**      **Lab ID: 92625627008**      Collected: 09/14/22 13:25      Received: 09/15/22 08:20      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	<b>0.280 ± 0.135 (0.167)</b> <b>C:96% T:NA</b>	pCi/L	10/12/22 19:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.385 ± 0.398 (0.828)</b> <b>C:78% T:85%</b>	pCi/L	10/10/22 15:40	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.665 ± 0.533 (0.995)</b>	pCi/L	10/14/22 17:44	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Detect RADs-Revised Report

Pace Project No.: 92625627

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: DGWC-17</b> <b>Lab ID: 92625627009</b> Collected: 09/14/22 14:40      Received: 09/15/22 08:20      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.153 ± 0.0979 (0.143)</b> <b>C:97% T:NA</b>	pCi/L	10/12/22 19:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.336 ± 0.567 (1.23)</b> <b>C:74% T:82%</b>	pCi/L	10/10/22 15:50	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.489 ± 0.665 (1.37)</b>	pCi/L	10/14/22 17:44	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Detect RADs-Revised Report

Pace Project No.: 92625627

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: DGWC-19</b> <b>Lab ID: 92625627010</b> Collected: 09/14/22 12:00      Received: 09/15/22 08:20      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.0523 ± 0.0702 (0.146)</b> <b>C:98% T:NA</b>	pCi/L	10/12/22 19:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.622 ± 0.395 (0.733)</b> <b>C:75% T:79%</b>	pCi/L	10/10/22 15:44	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.674 ± 0.465 (0.879)</b>	pCi/L	10/14/22 17:44	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Detect RADs-Revised Report

Pace Project No.: 92625627

**Sample: DUP-5**      **Lab ID: 92625627011**      Collected: 09/14/22 00:00      Received: 09/15/22 08:20      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	<b>0.0486 ± 0.0843 (0.191)</b> <b>C:105% T:NA</b>	pCi/L	10/12/22 19:26	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.357 ± 0.353 (0.724)</b> <b>C:70% T:89%</b>	pCi/L	10/10/22 15:44	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.406 ± 0.437 (0.915)</b>	pCi/L	10/14/22 17:44	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Detect RADs-Revised Report

Pace Project No.: 92625627

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: DGWC-22</b> <b>Lab ID: 92625627012</b> Collected: 09/16/22 12:01      Received: 09/16/22 16:30      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.111 ± 0.0878 (0.138)</b> <b>C:93% T:NA</b>	pCi/L	10/07/22 08:58	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.899 ± 0.426 (0.721)</b> <b>C:74% T:89%</b>	pCi/L	10/04/22 15:43	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.01 ± 0.514 (0.859)</b>	pCi/L	10/07/22 15:37	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Detect RADs-Revised Report

Pace Project No.: 92625627

**Sample: DGWC-8**      **Lab ID: 92625627013**      Collected: 09/15/22 13:18      Received: 09/16/22 16:30      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	<b>0.0663 ± 0.0837 (0.171)</b> <b>C:97% T:NA</b>	pCi/L	10/07/22 08:59	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.830 ± 0.379 (0.603)</b> <b>C:74% T:84%</b>	pCi/L	10/04/22 15:44	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.896 ± 0.463 (0.774)</b>	pCi/L	10/07/22 15:37	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Detect RADs-Revised Report

Pace Project No.: 92625627

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: DGWC-10</b> <b>Lab ID: 92625627014</b> Collected: 09/15/22 10:25      Received: 09/16/22 16:30      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.233 ± 0.129 (0.172)</b> <b>C:92% T:NA</b>	pCi/L	10/07/22 08:59	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.720 ± 0.341 (0.544)</b> <b>C:76% T:89%</b>	pCi/L	10/04/22 15:44	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.953 ± 0.470 (0.716)</b>	pCi/L	10/07/22 15:37	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Detect RADs-Revised Report

Pace Project No.: 92625627

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: DGWC-11</b> <b>Lab ID: 92625627015</b> Collected: 09/15/22 13:45      Received: 09/16/22 16:30      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.180 ± 0.122 (0.191)</b> <b>C:90% T:NA</b>	pCi/L	10/07/22 09:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.938 ± 0.440 (0.733)</b> <b>C:74% T:83%</b>	pCi/L	10/04/22 15:44	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.12 ± 0.562 (0.924)</b>	pCi/L	10/07/22 15:37	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Detect RADs-Revised Report

Pace Project No.: 92625627

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: DGWC-12</b> <b>Lab ID: 92625627016</b> Collected: 09/15/22 15:20      Received: 09/16/22 16:30      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.158 ± 0.100 (0.137)</b> <b>C:95% T:NA</b>	pCi/L	10/07/22 08:56	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.362 ± 0.345 (0.703)</b> <b>C:75% T:87%</b>	pCi/L	10/04/22 15:44	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.520 ± 0.445 (0.840)</b>	pCi/L	10/07/22 15:37	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Detect RADs-Revised Report

Pace Project No.: 92625627

**Sample: DGWC-13**      **Lab ID: 92625627017**      Collected: 09/15/22 09:35      Received: 09/16/22 16:30      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	<b>0.302 ± 0.137 (0.141)</b> <b>C:92% T:NA</b>	pCi/L	10/07/22 08:56	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.708 ± 0.372 (0.639)</b> <b>C:76% T:84%</b>	pCi/L	10/04/22 15:44	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.01 ± 0.509 (0.780)</b>	pCi/L	10/07/22 15:37	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Detect RADs-Revised Report

Pace Project No.: 92625627

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: DGWC-20</b> <b>Lab ID: 92625627018</b> Collected: 09/15/22 11:45      Received: 09/16/22 16:30      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.0963 ± 0.0923 (0.171)</b> <b>C:96% T:NA</b>	pCi/L	10/07/22 09:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>1.28 ± 0.491 (0.728)</b> <b>C:70% T:88%</b>	pCi/L	10/04/22 15:44	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.38 ± 0.583 (0.899)</b>	pCi/L	10/07/22 15:37	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Detect RADs-Revised Report

Pace Project No.: 92625627

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: DGWC-21</b> <b>Lab ID: 92625627019</b> Collected: 09/15/22 16:10      Received: 09/16/22 16:30      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.112 ± 0.121 (0.248)</b> <b>C:95% T:NA</b>	pCi/L	10/07/22 08:56	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.659 ± 0.407 (0.760)</b> <b>C:76% T:84%</b>	pCi/L	10/04/22 15:44	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.771 ± 0.528 (1.01)</b>	pCi/L	10/07/22 15:37	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Detect RADs-Revised Report

Pace Project No.: 92625627

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: EB-5</b> <b>Lab ID: 92625627020</b> Collected: 09/15/22 11:45      Received: 09/16/22 16:30      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.0317 ± 0.0766 (0.183)</b> <b>C:96% T:NA</b>	pCi/L	10/07/22 08:56	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.683 ± 0.357 (0.615)</b> <b>C:76% T:92%</b>	pCi/L	10/04/22 15:44	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.715 ± 0.434 (0.798)</b>	pCi/L	10/07/22 15:37	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Detect RADs-Revised Report

Pace Project No.: 92625627

**Sample: DGWC-4**      **Lab ID: 92625627021**      Collected: 09/19/22 13:26      Received: 09/20/22 09:50      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	<b>0.459 ± 0.170 (0.162)</b> <b>C:95% T:NA</b>	pCi/L	10/11/22 09:18	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>1.09 ± 0.422 (0.615)</b> <b>C:76% T:85%</b>	pCi/L	10/04/22 12:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.55 ± 0.592 (0.777)</b>	pCi/L	10/11/22 14:52	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Detect RADs-Revised Report

Pace Project No.: 92625627

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: DGWC-9</b> <b>Lab ID: 92625627022</b> Collected: 09/19/22 11:49      Received: 09/20/22 09:50      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.213 ± 0.116 (0.152)</b> <b>C:100% T:NA</b>	pCi/L	10/11/22 09:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>1.17 ± 0.443 (0.650)</b> <b>C:77% T:88%</b>	pCi/L	10/04/22 12:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.38 ± 0.559 (0.802)</b>	pCi/L	10/11/22 14:52	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Detect RADs-Revised Report

Pace Project No.: 92625627

**Sample: Dup-6**      **Lab ID: 92625627023**      Collected: 09/19/22 00:00      Received: 09/20/22 09:50      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	<b>0.369 ± 0.162 (0.193)</b> <b>C:92% T:NA</b>	pCi/L	10/11/22 09:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.928 ± 0.411 (0.675)</b> <b>C:76% T:91%</b>	pCi/L	10/04/22 12:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.30 ± 0.573 (0.868)</b>	pCi/L	10/11/22 14:52	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Detect RADs-Revised Report

Pace Project No.: 92625627

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: DGWC-2</b> <b>Lab ID: 92626980001</b> Collected: 09/20/22 13:16      Received: 09/21/22 15:05      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.367 ± 0.167 (0.156)</b> <b>C:91% T:NA</b>	pCi/L	10/12/22 20:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.0828 ± 0.403 (0.926)</b> <b>C:76% T:88%</b>	pCi/L	10/05/22 19:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.450 ± 0.570 (1.08)</b>	pCi/L	11/30/22 15:36	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Detect RADs-Revised Report

Pace Project No.: 92625627

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: DGWC-23</b> <b>Lab ID: 92626980002</b> Collected: 09/20/22 10:42      Received: 09/21/22 15:05      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.226 ± 0.139 (0.201)</b> <b>C:97% T:NA</b>	pCi/L	10/12/22 20:00	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.947 ± 0.617 (1.16)</b> <b>C:67% T:87%</b>	pCi/L	10/05/22 19:05	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.17 ± 0.756 (1.36)</b>	pCi/L	11/30/22 15:36	7440-14-4	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Detect RADs-Revised Report

Pace Project No.: 92625627

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QC Batch:	535740	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92625627021, 92625627022, 92625627023

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METHOD BLANK: 2599417 Matrix: Water

Associated Lab Samples: 92625627021, 92625627022, 92625627023

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0657 ± 0.105 (0.234) C:98% T:NA	pCi/L	10/11/22 09:17	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Detect RADs-Revised Report

Pace Project No.: 92625627

QC Batch: 535922

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92625627001, 92625627002, 92625627003, 92625627004, 92625627005, 92625627006, 92625627007, 92625627008, 92625627009, 92625627010, 92625627011

METHOD BLANK: 2600355

Matrix: Water

Associated Lab Samples: 92625627001, 92625627002, 92625627003, 92625627004, 92625627005, 92625627006, 92625627007, 92625627008, 92625627009, 92625627010, 92625627011

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0438 ± 0.0695 (0.152) C:94% T:NA	pCi/L	10/12/22 20:23	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Detect RADs-Revised Report

Pace Project No.: 92625627

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QC Batch:	534681	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92625627012, 92625627013, 92625627014, 92625627015, 92625627016, 92625627017, 92625627018, 92625627019, 92625627020

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METHOD BLANK: 2594503 Matrix: Water

Associated Lab Samples: 92625627012, 92625627013, 92625627014, 92625627015, 92625627016, 92625627017, 92625627018, 92625627019, 92625627020

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0423 ± 0.0706 (0.157) C:95% T:NA	pCi/L	10/07/22 09:37	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Detect RADs-Revised Report

Pace Project No.: 92625627

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QC Batch:	535924	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92625627001, 92625627002, 92625627003, 92625627004, 92625627005, 92625627006, 92625627007, 92625627008, 92625627009, 92625627010, 92625627011

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METHOD BLANK: 2600360 Matrix: Water

Associated Lab Samples: 92625627001, 92625627002, 92625627003, 92625627004, 92625627005, 92625627006, 92625627007, 92625627008, 92625627009, 92625627010, 92625627011

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.590 ± 0.382 (0.710) C:71% T:92%	pCi/L	10/10/22 13:30	

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**QUALITY CONTROL - RADIOCHEMISTRY**

Project: McDonough AP-2-3/4 Detect RADs-Revised Report

Pace Project No.: 92625627

QC Batch: 534679

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92625627012, 92625627013, 92625627014, 92625627015, 92625627016, 92625627017, 92625627018, 92625627019, 92625627020

METHOD BLANK: 2594500

Matrix: Water

Associated Lab Samples: 92625627012, 92625627013, 92625627014, 92625627015, 92625627016, 92625627017, 92625627018, 92625627019, 92625627020

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	-0.343 ± 0.266 (0.703) C:75% T:90%	pCi/L	10/04/22 15:45	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Detect RADs-Revised Report

Pace Project No.: 92625627

QC Batch: 535739

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92625627021, 92625627022, 92625627023

METHOD BLANK: 2599416

Matrix: Water

Associated Lab Samples: 92625627021, 92625627022, 92625627023

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.0371 ± 0.270 (0.626) C:74% T:89%	pCi/L	10/04/22 12:22	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Detect RADs-Revised Report

Pace Project No.: 92625627

QC Batch: 537265

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92626980001, 92626980002

METHOD BLANK: 2606799

Matrix: Water

Associated Lab Samples: 92626980001, 92626980002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.226 ± 0.138 (0.196) C:96% T:NA	pCi/L	10/12/22 19:59	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Detect RADs-Revised Report

Pace Project No.: 92625627

QC Batch:	537250	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92626980001, 92626980002

METHOD BLANK: 2606761 Matrix: Water

Associated Lab Samples: 92626980001, 92626980002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.545 ± 0.332 (0.615) C:82% T:99%	pCi/L	10/05/22 16:10	

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## QUALIFIERS

Project: McDonough AP-2-3/4 Detect RADs-Revised Report  
Pace Project No.: 92625627

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### 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 Detect RADs-Revised Report

Pace Project No.: 92625627

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92625627001	DGWC-14	EPA 9315	535922		
92625627002	DGWC-15	EPA 9315	535922		
92625627003	DGWC-42	EPA 9315	535922		
92625627004	DGWC-47	EPA 9315	535922		
92625627005	DGWC-48	EPA 9315	535922		
92625627006	EB-3	EPA 9315	535922		
92625627007	FB-4	EPA 9315	535922		
92625627008	DGWC-5	EPA 9315	535922		
92625627009	DGWC-17	EPA 9315	535922		
92625627010	DGWC-19	EPA 9315	535922		
92625627011	DUP-5	EPA 9315	535922		
92625627012	DGWC-22	EPA 9315	534681		
92625627013	DGWC-8	EPA 9315	534681		
92625627014	DGWC-10	EPA 9315	534681		
92625627015	DGWC-11	EPA 9315	534681		
92625627016	DGWC-12	EPA 9315	534681		
92625627017	DGWC-13	EPA 9315	534681		
92625627018	DGWC-20	EPA 9315	534681		
92625627019	DGWC-21	EPA 9315	534681		
92625627020	EB-5	EPA 9315	534681		
92625627021	DGWC-4	EPA 9315	535740		
92625627022	DGWC-9	EPA 9315	535740		
92625627023	Dup-6	EPA 9315	535740		
92626980001	DGWC-2	EPA 9315	537265		
92626980002	DGWC-23	EPA 9315	537265		
92625627001	DGWC-14	EPA 9320	535924		
92625627002	DGWC-15	EPA 9320	535924		
92625627003	DGWC-42	EPA 9320	535924		
92625627004	DGWC-47	EPA 9320	535924		
92625627005	DGWC-48	EPA 9320	535924		
92625627006	EB-3	EPA 9320	535924		
92625627007	FB-4	EPA 9320	535924		
92625627008	DGWC-5	EPA 9320	535924		
92625627009	DGWC-17	EPA 9320	535924		
92625627010	DGWC-19	EPA 9320	535924		
92625627011	DUP-5	EPA 9320	535924		
92625627012	DGWC-22	EPA 9320	534679		
92625627013	DGWC-8	EPA 9320	534679		
92625627014	DGWC-10	EPA 9320	534679		
92625627015	DGWC-11	EPA 9320	534679		
92625627016	DGWC-12	EPA 9320	534679		
92625627017	DGWC-13	EPA 9320	534679		
92625627018	DGWC-20	EPA 9320	534679		
92625627019	DGWC-21	EPA 9320	534679		
92625627020	EB-5	EPA 9320	534679		
92625627021	DGWC-4	EPA 9320	535739		

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: McDonough AP-2-3/4 Detect RADs-Revised Report  
Pace Project No.: 92625627

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92625627022	DGWC-9	EPA 9320	535739		
92625627023	Dup-6	EPA 9320	535739		
92626980001	DGWC-2	EPA 9320	537250		
92626980002	DGWC-23	EPA 9320	537250		
92625627001	DGWC-14	Total Radium Calculation	540022		
92625627002	DGWC-15	Total Radium Calculation	540022		
92625627003	DGWC-42	Total Radium Calculation	540022		
92625627004	DGWC-47	Total Radium Calculation	540022		
92625627005	DGWC-48	Total Radium Calculation	540022		
92625627006	EB-3	Total Radium Calculation	540022		
92625627007	FB-4	Total Radium Calculation	540022		
92625627008	DGWC-5	Total Radium Calculation	540022		
92625627009	DGWC-17	Total Radium Calculation	540022		
92625627010	DGWC-19	Total Radium Calculation	540022		
92625627011	DUP-5	Total Radium Calculation	540022		
92625627012	DGWC-22	Total Radium Calculation	538367		
92625627013	DGWC-8	Total Radium Calculation	538367		
92625627014	DGWC-10	Total Radium Calculation	538367		
92625627015	DGWC-11	Total Radium Calculation	538367		
92625627016	DGWC-12	Total Radium Calculation	538367		
92625627017	DGWC-13	Total Radium Calculation	538367		
92625627018	DGWC-20	Total Radium Calculation	538367		
92625627019	DGWC-21	Total Radium Calculation	538367		
92625627020	EB-5	Total Radium Calculation	538367		
92625627021	DGWC-4	Total Radium Calculation	538980		
92625627022	DGWC-9	Total Radium Calculation	538980		
92625627023	Dup-6	Total Radium Calculation	538980		
92626980001	DGWC-2	Total Radium Calculation	550509		
92626980002	DGWC-23	Total Radium Calculation	550509		

### REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.



DC#\_Title: ENV-FRM-HUN1-0083 v01\_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mer  Kannapolis

WO#: 92625627



92625627

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: 9/14/22 JAR

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:

3.2

Correction Factor:

0.0

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.
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:	WW	
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#: 92625627

PM: NMG

Due Date: 10/05/22

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 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)	AG9U-100 mL Amber Unpreserved (N/A) (Cl-)	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	2	1																												
5	2	1																												
6	2	1																												
7	2	1																												
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.



## 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 Manner Road  
 Atlanta, GA 30339  
 Email: hancock@scs.lhntmco.com  
 Phone: (478) 820-4178 Fax  
 Requested Date: 10 Day 1AT

**Section B**  
 Required Project Information:

Report To: Laura Colar  
 Copy To: Golder  
 Purchase Order #: Pinal Mill-AS-2, 3rd Operation  
 Project Name: Monitoring West Network  
 Project #: QL10049022

**Section C**  
 Invoice Information:

Address: scs.lhntmco.com  
 Company Name:  
 Pinal Mill:  
 Pinal Project Manager: Nicole D'Claro  
 Price Profile #: Ema / Location  
 GA

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / -) Samples IDs must be unique	DATE	TIME	DATE	TIME	APPROVED BY / APPLICATOR	ACCEPTED BY / APPLICATOR	DATE	TIME	Requested Analysis Returned (Y/N)		Residual Chlorine (Y/N)	TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)	
										Analysis Test	Y/N						
1	DGWC-14	9/13/2022	16:11	9/13/2022	8:53	[Signature]	[Signature]	9/14/2022	8:53	X	X	X	X	X	X	X	X
2	DGWC-13	9/13/2022	16:00	9/13/2022	8:34	[Signature]	[Signature]	9/14/2022	8:53	X	X	X	X	X	X	X	X
3	DGWC-42	9/13/2022	10:00	9/13/2022	8:34	[Signature]	[Signature]	9/14/2022	8:53	X	X	X	X	X	X	X	X
4	DGWC-47	9/13/2022	16:00	9/13/2022	8:34	[Signature]	[Signature]	9/14/2022	8:53	X	X	X	X	X	X	X	X
5	DGWC-48	9/13/2022	12:05	9/13/2022	8:34	[Signature]	[Signature]	9/14/2022	8:53	X	X	X	X	X	X	X	X
6	EB-3	9/13/2022	12:05	9/13/2022	8:34	[Signature]	[Signature]	9/14/2022	8:53	X	X	X	X	X	X	X	X
7	FB-4	9/13/2022	10:00	9/13/2022	8:34	[Signature]	[Signature]	9/14/2022	8:53	X	X	X	X	X	X	X	X
8																	
9																	
10																	
11																	
12																	
13																	
14																	

DATE signed: 09-14-22



# CHAIN-OF-CUSTODY / Analytical Request Document

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

<b>Section A</b> <b>Requested Client Information:</b> Company: Georgia Power - Coal Combustion Residuals Address: 2480 Manner Road Atlanta, GA 30339 Email: <a href="mailto:JALCOCKE1@SOUTHERNCO.COM">JALCOCKE1@SOUTHERNCO.COM</a> Phone: (470) 620-6176 Requested Due Date: 10 Day TAT	<b>Section B</b> <b>Requested Project Information:</b> Report To: Lauren Coker Copy To: Golder Purchase Order #: Project Name: Plant MCD AP-2, 3/4 Detection Monitoring Well Network Project #: GI168849622
<b>Section C</b> <b>Invoice Information:</b> Attention: <a href="mailto:scsinvoices@southernco.com">scsinvoices@southernco.com</a> Company Name: Address: Pace Quote: Pace Project Manager: Nicole D'Olivo Pace Profile #: 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 Filtrated (Y/N)	Residual Chlorine (Y/N)	SAMPLE CONDITIONS				
														TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)	
1	DGWC-14	WG	G	G	9/13/2022	16:11		6	3	3	X	X	X	X				
2	DGWC-15	WG	G	G	9/13/2022	16:00		6	3	3	X	X	X	X				
3	DGWC-42	WG	G	G	9/13/2022	10:00		6	3	3	X	X	X	X				
4	DGWC-47	WG	G	G	9/13/2022	16:05		6	3	3	X	X	X	X				
6	DGWC-48	WG	G	G	9/13/2022	12:05		6	3	3	X	X	X	X				
7	EB-3	WQ	G	G	9/13/2022	12:05		6	3	3	X	X	X	X				
8	FB-4	WQ	G	G	9/13/2022	10:00		6	3	3	X	X	X	X				
9																		
10																		
11																		
12																		
13																		
14																		

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

MATRIX: Drinking Water, DW; Water, WT; Waste Water, WW; Product, P; Soil/Sand, SL; Oil, OL; Wipes, WP; Air, AR; Other, OT; Tissue, TS

ADDITIONAL COMMENTS

RELINQUISHED BY / AFFILIATION

DATE

TIME

ACCEPTED BY / AFFILIATION

DATE

TIME

DATE Signed:



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  Mooresville  Atlanta  Knoxville

**WO# : 92625627**  
 PM: NMG Due Date: 10/05/22  
 CLIENT: GA-GA Power

Sample Condition Upon Receipt

Client Name: GA Power

Project

Courier:  Commercial  Fed Ex  UPS  USPS  Client  Pace  Other: \_\_\_\_\_

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 9/15/22  
COA

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: 3.8 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): 3.8

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.
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 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: <b>Bottle Identification Form (BIF)</b>	Document Issued: November 15, 2021
	Document No.: <b>F-CAR-CS-043-Rev.01</b>	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

**WO# : 92625627**

PM: NMG

Due Date: 10/05/22

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)-S035 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																													
	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.







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

Sample Condition Upon Receipt

Client Name: Georgia Power

Project: WO#: 92625627  
PM: NMG Due Date: 10/05/22  
CLIENT: GA-GA Power

Courier:  Commercial  Fed Ex  UPS  USPS  Client  Pace  Other:

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

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

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

Cooler Temp Corrected (°C): 3.3

Date/Initials Person Examining Contents: 9/17/22 JM  
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

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:	WG	
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

WO#: 92625627

Project #

PM: NMG

Due Date: 10/05/22

CLIENT: GA-GA Power

\*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

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)		
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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.





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: Georgia Power

Project #

WO#: 92625627

PM: NMG

Due Date: 10/05/22

CLIENT: GA-GA Power

Courier:  Commercial  Fed Ex  Pace  UPS  USPS  Other:  Client

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 9/17/22 JM

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: 3.3 Correction Factor: 0.0 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): 3.3

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:	WG	
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

**WO# : 92625627**

PM: NMG

Due Date: 10/05/22

CLIENT: GA-GA Power

\*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

Projec

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)	
1	2	1			1																			2				
2	2	1			1																			4				
3	2	1			1																			2				
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8	2	1			1																			2				
9																												
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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.





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: GA Power

Project

WO#: 92625627  
PM: NMG  
CLIENT: GA-GA Power  
Due Date: 10/05/22

Courier:  Commercial  Fed Ex  Pace  UPS  USPS  Other:  Client

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 9/20/22 CJR

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

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

Cooler Temp Corrected (°C): 3.3

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 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.

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

**WO# : 92625627**

PM: NMG

Due Date: 10/05/22

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 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-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
1	2	1	1	1	1	1																	2						
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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)







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:

Georgia Power

Project #

WO#: 92625627

PM: NMG

Due Date: 10/05/22

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: 9/21/22 AT

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: 4.1 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): 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 checked="" type="checkbox"/> Yes <input 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: W C	
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

WO#: 92625627

\*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

Proj

PM: NMG

Due Date: 10/05/22

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)(CH)	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-)	VSGU-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 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: 2480anner Road, Atlanta, GA 30339, Email: lauchette@southernco.com, Phone: (470) 630-6176, Requested Due Date: 10 Day TAT

Section B: Required Project Information: Report To: Lauren Coker, Copy To: Coker, Project Name: Plant MCD AP-2 3rd Monitoring Well Network, Project #: QL156849622

Section C: Invoice Information: Attention: eschroeder@southernco.com, Address: Pace Quote, Pace Project Manager: Nicole D'Ono, Pace Invoice #

Page: 1 of 1

Requested Analysis Filtered (Y/N)

Regulatory Agency: GA

State / Location: GA

ITEM #	SAMPLE ID (A-Z, 0-9 / -) Sample IDs must be unique	MATRIX CODE (see valid codes to left)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	pH = 5.96, Fe2 = 0.0 mg/L pH = 6.00, Fe2 = 0.0 mg/L
							Unpreserved - Ice	H2SO4	HNO3 + Ice	HC	NaOH + Zn Acetate	Na2S2O3				
1	DGWC-2	WC	9/20/2022	13:16		8	3	5								
2	DGWC-23	WC	9/20/2022	10:42		8	3	5								
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																

ADDITIONAL COMMENTS: Relinquished by / Affiliation: Go LLC, Date: 09/21/22, Time: 15:05, Accepted by / Affiliation: [Signature], Date: 9/21/22, Time: 1505

TEMP in C: \_\_\_\_\_

Received on Ice (Y/N): \_\_\_\_\_

Custody Sealed Cooler (Y/N): \_\_\_\_\_

Samples Intact (Y/N): \_\_\_\_\_

DATE Signed: \_\_\_\_\_

005  
000



# Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226  
Analyst: RMS  
Date: 9/26/2022  
Worksheet: 68985  
Matrix: DW

Method Blank Assessment	
MB Sample ID	2594503
MB Concentration:	0.042
MB Counting Uncertainty:	0.070
MB MDC:	0.157
MB Numerical Performance Indicator:	1.18
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
LCSD (Y or N)?	Y
Count Date:	10/7/2022
Sample ID:	LCSD68985
Decay Corrected Spike Concentration (pCi/mL):	19.033
Volume Used (mL):	24.023
Aliquot Volume (L, g, F):	0.10
Target Conc. (pCi/L, g, F):	0.501
Uncertainty (Calculated):	4.752
Result (pCi/L, g, F):	0.958
LCSD Counting Uncertainty (pCi/L, g, F):	4.847
Numerical Performance Indicator:	0.496
Percent Recovery:	0.22
Status vs Numerical Indicator:	101.15%
Status vs Recovery:	N/A
Upper % Recovery Limits:	Pass
Lower % Recovery Limits:	125%
	75%

Duplicate Sample Assessment	
Sample I.D.:	2594503
Duplicate Sample I.D.:	92625631020
Sample Result (pCi/L, g, F):	0.042
Sample Result Counting Uncertainty (pCi/L, g, F):	0.070
Sample Duplicate Result (pCi/L, g, F):	0.033
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.065
Are sample and/or duplicate results below RL?	See Below ##
Duplicate Numerical Performance Indicator:	0.192
(Based on the LCSD Percent Recoveries) Duplicate RPD:	25.02%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass
% RPD Limit:	25%
	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.:		
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 Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Sample Matrix Spike Duplicate 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 Result:	
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:	

# Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

\*\*\*Batch must be re-assessed due to unacceptable precision. N/A

VAM 10/7/22

VAM 10/7/22

# Quality Control Sample Performance Assessment



*Analyst Must Manually Enter All Fields Highlighted in Yellow.*

Test: Ra-226  
Analyst: RMS  
Date: 9/29/2022  
Worklist: 69056  
Matrix: DW

Method Blank Assessment	
MB Sample ID	2599417
MB concentration:	0.066
MB Counting Uncertainty:	0.104
MB MDC:	0.234
MB Numerical Performance Indicator:	1.23
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment		Y
LCSID (Y or N)?	LCSID#	Y
10/11/2022	LCS069056	10/11/2022
Count Date:	19-033	24-023
Spike I.D.:	0.10	0.503
Decay Corrected Spike Concentration (pCi/mL):	4.772	4.776
Volume Used (mL):	0.057	0.057
Aliquot Volume (L, g, F):	4.561	5.048
Target Conc. (pCi/L, g, F):	0.462	0.491
Uncertainty (Calculated):	-0.89	1.08
Result (pCi/L, g, F):	95.59%	105.68%
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	N/A	N/A
Numerical Performance Indicator:	Pass	Pass
Status vs Numerical Indicator:	125%	125%
Percent Recovery:	75%	75%
Status vs Recovery:		
Upper % Recovery Limits:		
Lower % Recovery Limits:		

Duplicate Sample Assessment	
Sample I.D.:	LCS069056
Duplicate Sample I.D.:	LCS069056
Sample Result (pCi/L, g, F):	4.591
Sample Result Counting Uncertainty (pCi/L, g, F):	0.462
Sample Duplicate Result (pCi/L, g, F):	5.048
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.491
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	-1.414
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	10.03%
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 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 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:

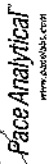
## Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

*[Handwritten Signature]*

10/11/22

# Quality Control Sample Performance Assessment



Analyst **Must Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-226  
Analyst: RMS  
Date: 9/30/2022  
Worklist: 69072  
Matrix: DW

**Method Blank Assessment**

MB Sample ID: 2600355  
MB concentration: 0.044  
MB Counting Uncertainty: 0.069  
MB MDC: 0.152  
MB Numerical Performance Indicator: 1.24  
MB Status vs Numerical Indicator: N/A  
MB Status vs MDC: Pass

**Laboratory Control Sample Assessment**

Count Date	Spike I.D.	LCS (Y or N)?	Y
10/12/2022	19-033	LCS69072	LCS069072
Decay Corrected Spike Concentration (pCi/mL):	24.023	0.10	19-033
Volume Used (mL):	0.505	4.758	24.023
Aliquot Volume (L, g, F):	0.057	5.119	0.10
Target Conc. (pCi/L, g, F):	5.119	0.487	0.505
Uncertainty (Calculated):	1.44	107.59%	4.758
Result (pCi/L, g, F):	107.59%	Pass	0.057
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	Pass	125%	5.119
Numerical Performance Indicator:	75%	75%	4.712
Percent Recovery:			0.471
Status vs Numerical Indicator:			100.17%
Status vs Recovery:			N/A
Upper % Recovery Limits:			Pass
Lower % Recovery Limits:			125%
			75%

**Duplicate Sample Assessment**

Sample I.D.	Duplicate Sample I.D.	Sample Result (pCi/L, g, F)	Duplicate Result (pCi/L, g, F)	Sample Result Counting Uncertainty (pCi/L, g, F)	Duplicate Result Counting Uncertainty (pCi/L, g, F)	Are sample and/or duplicate results below RL?	Duplicate Numerical Performance Indicator	Duplicate Status vs Numerical Indicator	Duplicate Status vs RPD	% RPD Limit
2600355	92624394013	0.044	0.044	0.069	0.069	NO	1.179	N/A	Pass	25%
0.020	0.020	0.055	0.055	See Below ##	73.02%	Fail***	25%			

**Sample Matrix Spike Control Assessment**

Sample Collection Date:  
Sample I.D.:  
Sample MS I.D.:  
Sample MSD I.D.:  
Spike I.D.:

MMS/MSD Decay Corrected Spike Concentration (pCi/mL):  
Spike Volume Used in MSD (mL):  
MS Aliquot (L, g, F):  
MSD Aliquot (L, g, F):  
MS Target Conc. (pCi/L, g, F):  
MS Spike Uncertainty (calculated):  
MMS/MSD Upper % Recovery Limits:  
MMS/MSD Lower % Recovery Limits:

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:  
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:  
MMS/MSD Upper % Recovery Limits:  
MMS/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:  
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:

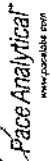
\*\*\*Batch must be resubmitted due to unacceptable precision: N/A

*Signature*

LAM 10/13/22



# Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228  
Analyst: VAL  
Date: 9/26/2022  
Worklist: 68983  
Matrix: WT

**Method Blank Assessment**

MB Sample ID: 2594500  
MB concentration: -0.343  
M/B 2 Sigma CSU: 0.286  
MB MDC: 0.703  
MB Numerical Performance Indicator: -2.52  
MB Status vs Numerical Indicator: Warning  
MB Status vs MDC: Pass

LCSD (Y or N)?	Y
LCSD68983	10/4/2022
Count Date:	10/4/2022
Spike I.D.:	22-029
Decay Corrected Spike Concentration (pCi/mL):	19.873
Volume Used (mL):	0.20
Aliquot Volume (L, g, F):	0.810
Target Conc. (pCi/L, g, F):	4.966
Uncertainty (Calculated):	0.357
Result (pCi/L, g, F):	3.835
LCSD/LCSD 2 Sigma CSU (pCi/L, g, F):	0.866
Numerical Performance Indicator:	3.327
Percent Recovery:	0.797
Status vs Numerical Indicator:	-3.56
Upper % Recovery Limits:	67.77%
Lower % Recovery Limits:	N/A
Pass:	Pass
135%:	135%
60%:	60%

**Duplicate Sample Assessment**

Sample I.D.: LCS68663  
Duplicate Sample I.D.: LCS68983  
Sample Result (pCi/L, g, F): 3.835  
Sample Duplicate Result (pCi/L, g, F): 0.896  
Sample Result 2 Sigma CSU (pCi/L, g, F): 3.327  
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F): 0.797  
Are sample and/or duplicate results below RL? NO  
Duplicate Numerical Performance Indicator: 0.830  
(Based on the LCSD/LCSD Percent Recoveries) Duplicate RPD: 13.22%  
Duplicate Status vs Numerical Indicator: Pass  
Duplicate Status vs RPD: Pass  
% RPD Limit: 36%

Enter Duplicate sample IDs if other than LCSD/LCSD in the space below.

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 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 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>MS/MSD Upper % Recovery Limits:</p> <p>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:

Sample 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:

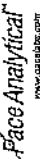
% RPD Limit:

## Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

*DTIC 501*  
*Am 10/26/22*

# Quality Control Sample Performance Assessment



Analyst must manually enter all fields highlighted in yellow.

Test: Ra-228  
Analyst: VAL  
Date: 9/30/2022  
Worklist: 69073  
Matrix: WT

**Method Blank Assessment**

MB Sample ID	2800360
MB concentration:	0.590
MB 2 Sigma CSU:	0.382
MB MDC:	0.710
MB Numerical Performance Indicator:	3.02
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	Pass

**Laboratory Control Sample Assessment**

Count Date:	LCS#	Y or N?
10/10/2022	LCS69073	Y
10/10/2022	LCS69073	Y
22-029	19.834	
19.834	0.20	
0.810	0.808	
4.907	4.895	
0.353	0.352	
6.528	6.766	
1.419	2.51	
138.22%	133.05%	
Warning	N/A	
Fail High**	Pass	
135%	135%	
60%	60%	

**Duplicate Sample Assessment**

Sample I.D.:	LCS69073
Duplicate Sample I.D.:	LCS69073
Sample Result (pCi/L, g, F):	6.528
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.382
Sample Duplicate Result (pCi/L, g, F):	6.766
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.419
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	-0.235
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	3.81%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	Pass
% RPD Limit:	35%

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>MSD Aliquot (L, g, F):</p> <p>MS Target Conc. (pCi/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>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**

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:	Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):
Matrix Spike 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:

# 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, MB activity is acceptable, otherwise this batch must be reprocessed. *Quintana*

*MB activity < MDC, Pass*

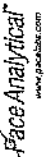
*NI < 3 acceptable for L10/MSD*

*Quintana*

*Two*

*10-11-22*

# Quality Control Sample Performance Assessment



Test: Ra-228  
 Analyst: VAL  
 Date: 9/28/2022  
 Worklist: 69055  
 Matrix: WT

**Method Blank Assessment**

MB Sample ID	2599416
MS concentration:	0.037
MB 2 Sigma CSU:	0.270
MB MDC:	0.626
MB Numerical Performance Indicator:	0.27
MB Status vs Numerical Indicator:	Pass
MB Status vs MDC:	Pass

**Laboratory Control Sample Assessment**

Count Date:	Spike I.D.:	LCS/D69055	Y
10/4/2022	22-029	10/4/2022	
Decay Corrected Spike Concentration (pCi/mL):	19.874	19.874	
Volume Used (mL):	0.20	0.20	
Aliquot Volume (L, g, F):	0.806	0.805	
Target Conc. (pCi/L, g, F):	4.933	4.940	
Uncertainty (Calculated):	0.355	0.356	
Result (pCi/L, g, F):	4.169	4.442	
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.917	0.977	
Numerical Performance Indicator:	-1.48	-0.94	
Percent Recovery:	84.92%	89.91%	
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.:	LCS69055
Duplicate Sample I.D.:	LCS69055
Sample Result (pCi/L, g, F):	4.189
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.917
Sample Duplicate Result (pCi/L, g, F):	4.442
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.977
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	-0.370
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	5.70%
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 and initials*

Analyst Must Manually Enter All Fields Highlighted in Yellow.

**Sample Matrix Spike Control Assessment**

Sample Collection Date:	Sample I.D.:	MS/MSD 1	MS/MSD 2
Sample MS I.D.:	Sample MS I.D.:		
Sample MSD I.D.:	Sample MSD I.D.:		
Spike I.D.:	Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MSD (mL):	Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):	MS Aliquot (L, g, F):		
MS Target Conc. (pCi/L, g, F):	MS Target Conc. (pCi/L, g, F):		
MSD Aliquot (L, g, F):	MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):	MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):	MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):	MSD Spike Uncertainty (calculated):		
Sample Result:	Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):	Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:	Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:	Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:	MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:	MSD Numerical Performance Indicator:		
MS Percent Recovery:	MS Percent Recovery:		
MSD Percent Recovery:	MSD Percent Recovery:		
MS Status vs Numerical Indicator:	MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:	MSD Status vs Numerical Indicator:		
MS Status vs Recovery:	MS Status vs Recovery:		
MSD Status vs Recovery:	MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:	MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:	MS/MSD Lower % Recovery Limits:		

**Matrix Spike/Matrix Spike Duplicate Sample Assessment**

Sample I.D.:	Sample I.D.:
Sample MS I.D.:	Sample MS I.D.:
Sample MSD I.D.:	Sample MSD I.D.:
Sample Matrix Spike Result:	Sample Matrix Spike Result:
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):
Sample Matrix Spike Duplicate Result:	Sample Matrix Spike Duplicate Result:
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	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:	(Based on the Percent Recoveries) MS/MSD Duplicate RPD:
MS/MSD Duplicate Status vs Numerical Indicator:	MS/MSD Duplicate Status vs Numerical Indicator:
MS/MSD Duplicate Status vs RPD:	MS/MSD Duplicate Status vs RPD:
% RPD Limit:	% RPD Limit:



## Quality Control Sample Performance Assessment

Test: Ra-226  
Analyst: RMS  
Date: 10/7/2022  
Worklist: 69179  
Matrix: DW

**Analyst Must Manually Enter All Fields Highlighted in Yellow.**

Method Blank Assessment	
MB Sample ID	2606799
MB concentration:	0.226
M/B Counting Uncertainty:	0.134
MB MDC:	0.196
MB Numerical Performance Indicator:	3.29
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	See Comment*

Laboratory Control Sample Assessment	LCSD (Y or N)?	
	LCSD69179	LCSD69179
Count Date:	10/12/2022	10/12/2022
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.023	24.023
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.503	0.503
Target Conc. (pCi/L, g, F):	4.771	4.773
Uncertainty (Calculated):	0.057	0.057
Result (pCi/L, g, F):	4.303	5.044
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.532	0.573
Numerical Performance Indicator:	-1.72	0.92
Percent Recovery:	90.18%	105.67%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

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:		
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:		

Duplicate Sample Assessment		
Sample I.D.:	LCS69179	
Duplicate Sample I.D.:	LCSD69179	
Sample Result (pCi/L, g, F):	4.303	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.532	
Sample Duplicate Result (pCi/L, g, F):	5.044	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.573	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-1.857	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	15.81%	
Duplicate Status vs Numerical Indicator:	N/A	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	25%	

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:		

## 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.

# Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: R8-226  
Analyst: SLC  
Date: 9/27/2022  
Batch ID: 69026  
Matrix: DW



Method Blank Assessment	
MB Sample ID	2597924
MB concentration:	0.126
MB Counting Uncertainty:	0.246
MB MDC:	0.463
MB Numerical Performance Indicator:	1.00
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
LCS# (Y or N)?	N
LCS#9026	LCS#69036
Count Date:	10/3/2022
Spike I.D.:	21-040
Spike Concentration (pCi/mL):	32.426
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.650
Target Conc. (pCi/L, g, F):	4.985
Uncertainty (Calculated):	0.234
Result (pCi/L, g, F):	5.670
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	1.234
Numerical Performance Indicator:	2.63
Percent Recovery:	133.79%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass
Upper % Recovery Limits:	135%
Lower % Recovery Limits:	73%

Duplicate Sample Assessment	
Sample I.D.:	30524712001
Duplicate Sample I.D.:	30524712001DUP
Sample Result (pCi/L, g, F):	0.069
Sample Duplicate Result (pCi/L, g, F):	0.234
Sample Result Counting Uncertainty (pCi/L, g, F):	0.065
Sample Duplicate Counting Uncertainty (pCi/L, g, F):	0.221
Are sample and/or duplicate results below RL?	See Below ##
Duplicate Numerical Performance Indicator:	0.024
Duplicate RPD:	5.77%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass
% RPD Limit:	32%

## Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the RL.

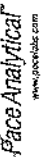
Comments:

Sample Matrix Spike Control Assessment	
Sample Collection Date:	9/20/2022
Sample I.D.:	30524713002
Sample MS I.D.:	30524713002MS
Sample MSD I.D.:	21-040
Spike I.D.:	32.426
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	0.10
Spike Volume Used in MS (mL):	0.505
Spike Volume Used in MSD (mL):	6.423
MS Aliquot (L, g, F):	0.302
MS Target Conc. (pCi/L, g, F):	0.070
MS Aliquot (L, g, F):	0.309
MS Target Conc. (pCi/L, g, F):	7.204
MS Spike Uncertainty (Calculated):	1.475
MSD Spike Uncertainty (Calculated):	0.906
Sample Result Counting Uncertainty (pCi/L, g, F):	111.07%
Sample Matrix Spike Result:	N/A
Sample Matrix Spike Duplicate Result:	Pass
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	136%
MS Numerical Performance Indicator:	71%
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 I.D.
Sample MS I.D.:	Sample MS I.D.
Sample MSD I.D.:	Sample MSD I.D.
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Duplicate Result:	Sample Matrix Spike Duplicate Result:
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):	Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):
Duplicate Numerical Performance Indicator:	Duplicate Numerical Performance Indicator:
(Based on the 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 Numerical Indicator:
MS/MSD Duplicate Status vs RPD:	MS/MSD Duplicate Status vs RPD:
% RPD Limit:	% RPD Limit:

GDH  
10/6/22  
JDE 10/6/22

# Quality Control Sample Performance Assessment



*Analyst Must Manually Enter All Fields Highlighted in Yellow.*

Test: Ra-228  
Analyst: VAL  
Date: 9/28/2022  
Worklist: 69027  
Matrix: WT

Method Blank Assessment	
MB Sample ID	2597990
MB concentration:	0.545
MB 2 Sigma CSU:	0.332
MB MDC:	0.615
MB Numerical Performance Indicator:	3.22
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
LCSD (Y or N)?	N
LCSD9027	LCSD69027
Count Date:	10/6/2022
Spike I.D.:	22-029
Decay Corrected Spike Concentration (pCi/mL):	19.866
Volume Used (mL):	0.20
Aliquot Volume (L, g, F):	0.813
Target Conc. (pCi/L, g, F):	4.889
Uncertainty (Calculated):	0.352
Result (pCi/L, g, F):	4.576
LCSD/LCSD 2 Sigma CSU (pCi/L, g, F):	1.007
Numerical Performance Indicator:	-0.58
Percent Recovery:	93.56%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass
Upper % Recovery Limits:	135%
Lower % Recovery Limits:	60%

Duplicate Sample Assessment	
Sample I.D.:	30524570001
Duplicate Sample I.D.:	30524570001DUP
Sample Result (pCi/L, g, F):	0.272
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.369
Sample Duplicate Result (pCi/L, g, F):	0.869
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.407
Are sample and/or duplicate results below RL?	See Below ##
Duplicate Numerical Performance Indicator:	-2.131
Duplicate RPD:	104.65%
Duplicate Status vs Numerical Indicator:	Warning
Duplicate Status vs RPD:	Fail***
% RPD Limit:	35%

## Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

\*LCSD lowest activity sample in this batch is greater than test times the blank value; the blank is acceptable; otherwise this batch must be re-prepped.

*NUB activity = null, Pass*

*JDJ 10/6/22*  
*Amoy*

Sample Matrix Spike Control Assessment	
Sample Collection Date:	9/13/2022
Sample I.D.:	30524715001
Sample MS I.D.:	30524715001MS
Spike I.D.:	22-029
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	20.011
Spike Volume Used in MS (mL):	0.40
Spike Volume Used in MSD (mL):	0.810
MS Aliquot (L, g, F):	9.877
MS Target Conc. (pCi/L, g, F):	
MSD Aliquot (L, g, F):	
MSD Target Conc. (pCi/L, g, F):	
MS Spike Uncertainty (calculated):	0.711
MSD Spike Uncertainty (calculated):	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.208
Sample Matrix Spike Result:	0.308
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	10.323
Sample Matrix Spike Duplicate Result:	2.044
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
MS Numerical Performance Indicator:	0.214
MSD Numerical Performance Indicator:	102.42%
MS Percent Recovery:	Pass
MSD Percent Recovery:	Pass
MS Status vs Numerical Indicator:	135%
MSD Status vs Numerical Indicator:	60%
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 I.D.
Sample MS I.D.:	Sample MS I.D.
Sample MSD I.D.:	Sample MSD I.D.
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):
Sample Matrix Spike Result:	Sample Matrix Spike Duplicate Result:
Sample Matrix Spike Duplicate Result:	Sample Matrix Spike Duplicate Result:
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	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:	MS/MSD Duplicate Status vs RPD:
% RPD Limit:	% RPD Limit:

November 30, 2022

Andrea McClure  
WSP/Golder  
5170 Peachtree Road  
Building 100, Suite 300  
Atlanta, GA 30341

RE: Project: McDonough AP-2-3/4 Assessment-Revised Report  
Pace Project No.: 92625178

Dear Andrea McClure:

Enclosed are the analytical results for sample(s) received by the laboratory between September 14, 2022 and September 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

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

Sincerely,



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

Enclosures

cc: Joju Abraham, Georgia Power-CCR  
Stephen Benda, Southern Company  
Noelia Gangi, Georgia Power  
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.  
Michael Smilley, Georgia Power  
Yong Cheng Soo, WSP/Golder  
Tina Sullivan, ERM



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: McDonough AP-2-3/4 Assessment-Revised Report

Pace Project No.: 92625178

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### **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

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### **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

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### **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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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: McDonough AP-2-3/4 Assessment-Revised Report

Pace Project No.: 92625178

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92625178003	B-83	Water	09/13/22 11:43	09/14/22 09:53
92625178004	B-97	Water	09/13/22 12:26	09/14/22 09:53
92625178005	B-98	Water	09/13/22 11:58	09/14/22 09:53
92625178006	B-104D	Water	09/13/22 13:55	09/14/22 09:53
92625178007	DUP-4	Water	09/13/22 00:00	09/14/22 09:53
92625178008	B-77	Water	09/13/22 14:21	09/14/22 09:53
92625178009	B-63	Water	09/14/22 12:56	09/15/22 08:20
92625178010	B-107D	Water	09/14/22 10:15	09/15/22 08:20
92625178011	B-111D	Water	09/14/22 15:11	09/15/22 08:20
92625178012	B-115D	Water	09/14/22 15:26	09/15/22 08:20
92625178013	FB-5	Water	09/14/22 12:20	09/15/22 08:20
92625623012	B-102D	Water	09/15/22 12:00	09/16/22 16:30
92625623013	B-108D	Water	09/15/22 14:05	09/16/22 16:30
92625623014	FB-6	Water	09/15/22 14:05	09/16/22 16:30
92625178017	B-56	Water	09/16/22 10:13	09/16/22 16:30
92625178018	B-66	Water	09/16/22 10:10	09/16/22 16:30
92625178019	B-88	Water	09/16/22 10:44	09/16/22 16:30
92625178020	B-101D	Water	09/16/22 11:30	09/16/22 16:30
92625178021	B-106D	Water	09/16/22 09:16	09/16/22 16:30
92625178022	B-82	Water	09/16/22 12:15	09/16/22 16:30
92625178023	B-120D	Water	09/19/22 14:55	09/20/22 09:50
92625178024	EB-6	Water	09/19/22 15:30	09/20/22 09:50
92625178025	B-109D	Water	09/20/22 14:33	09/21/22 15:05

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: McDonough AP-2-3/4 Assessment-Revised Report

Pace Project No.: 92625178

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92625178003	B-83	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
92625178004	B-97	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
92625178005	B-98	SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
92625178006	B-104D	SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	5
		EPA 6020B	CW1	13
92625178007	DUP-4	EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	5
92625178008	B-77	EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92625178009	B-63	EPA 6010D	DRB	5

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: McDonough AP-2-3/4 Assessment-Revised Report

Pace Project No.: 92625178

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92625178010	B-107D	EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
92625178011	B-111D	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
92625178012	B-115D	SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	5
92625178013	FB-5	EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
92625623012	B-102D	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
92625623013	B-108D	EPA 6010D	KH	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: McDonough AP-2-3/4 Assessment-Revised Report  
Pace Project No.: 92625178

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92625623014	FB-6	EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
92625178017	B-56	SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92625178018	B-66	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	5
		EPA 6020B	CW1	13
92625178019	B-88	EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
92625178020	B-101D	SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92625178021	B-106D	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: McDonough AP-2-3/4 Assessment-Revised Report  
Pace Project No.: 92625178

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92625178022	B-82	SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
92625178023	B-120D	SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2011	MAB2	1
92625178024	EB-6	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2011	MAB2	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92625178025	B-109D	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2011	MAB2	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-Revised Report  
Pace Project No.: 92625178

Sample: B-83		Lab ID: 92625178003		Collected: 09/13/22 11:43		Received: 09/14/22 09:53		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		09/19/22 07:25		
pH	<b>5.60</b>	Std. Units			1		09/19/22 07:25		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	ND	mg/L	0.040	0.025	1	09/27/22 11:19	09/27/22 15:26	7439-89-6	
Potassium	<b>2.6</b>	mg/L	0.20	0.15	1	09/27/22 11:19	09/27/22 15:26	7440-09-7	
Sodium	<b>9.6</b>	mg/L	1.0	0.58	1	09/27/22 11:19	09/27/22 15:26	7440-23-5	
Calcium	<b>36.2</b>	mg/L	1.0	0.12	1	09/27/22 11:19	09/27/22 15:26	7440-70-2	
Magnesium	<b>10.1</b>	mg/L	0.050	0.012	1	09/27/22 11:19	09/27/22 15:26	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/26/22 13:33	09/27/22 19:03	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/26/22 13:33	09/27/22 19:03	7440-38-2	
Barium	<b>0.025</b>	mg/L	0.0050	0.00067	1	09/26/22 13:33	09/27/22 19:03	7440-39-3	
Beryllium	<b>0.00044J</b>	mg/L	0.00050	0.000054	1	09/26/22 13:33	09/27/22 19:03	7440-41-7	
Boron	<b>0.33</b>	mg/L	0.040	0.0086	1	09/26/22 13:33	09/28/22 15:05	7440-42-8	
Cadmium	<b>0.00031J</b>	mg/L	0.00050	0.00011	1	09/26/22 13:33	09/27/22 19:03	7440-43-9	
Chromium	<b>0.0022J</b>	mg/L	0.0050	0.0011	1	09/26/22 13:33	09/27/22 19:03	7440-47-3	
Cobalt	<b>0.012</b>	mg/L	0.0050	0.00039	1	09/26/22 13:33	09/27/22 19:03	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/26/22 13:33	09/27/22 19:03	7439-92-1	
Lithium	<b>0.0027J</b>	mg/L	0.030	0.00073	1	09/26/22 13:33	09/27/22 19:03	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/26/22 13:33	09/27/22 19:03	7439-98-7	
Selenium	<b>0.024</b>	mg/L	0.0050	0.0014	1	09/26/22 13:33	09/27/22 19:03	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/26/22 13:33	09/27/22 19:03	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	10/04/22 13:15	10/04/22 16:35	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>210</b>	mg/L	25.0	10.0	1		09/16/22 14:35		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	<b>39.2</b>	mg/L	5.0	5.0	1		09/20/22 13:23		
Alkalinity, Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	5.0	1		09/20/22 13:23		
Alkalinity, Total as CaCO <sub>3</sub>	<b>39.2</b>	mg/L	5.0	5.0	1		09/20/22 13:23		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>2.5</b>	mg/L	1.0	0.60	1		09/17/22 19:57	16887-00-6	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report

Pace Project No.: 92625178

Sample: B-83		Lab ID: 92625178003		Collected: 09/13/22 11:43	Received: 09/14/22 09:53	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Fluoride	<b>0.081J</b>	mg/L	0.10	0.050	1		09/17/22 19:57	16984-48-8	
Sulfate	<b>109</b>	mg/L	2.0	1.0	2		09/20/22 18:02	14808-79-8	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report  
Pace Project No.: 92625178

Sample: B-97		Lab ID: 92625178004		Collected: 09/13/22 12:26		Received: 09/14/22 09:53		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		09/19/22 07:26		
pH	<b>5.54</b>	Std. Units			1		09/19/22 07:26		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	ND	mg/L	0.040	0.025	1	09/27/22 11:19	09/27/22 15:30	7439-89-6	
Potassium	<b>5.6</b>	mg/L	0.20	0.15	1	09/27/22 11:19	09/27/22 15:30	7440-09-7	
Sodium	<b>40.1</b>	mg/L	1.0	0.58	1	09/27/22 11:19	09/27/22 15:30	7440-23-5	
Calcium	<b>201</b>	mg/L	1.0	0.12	1	09/27/22 11:19	09/27/22 15:30	7440-70-2	
Magnesium	<b>34.3</b>	mg/L	0.050	0.012	1	09/27/22 11:19	09/27/22 15:30	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/26/22 13:33	09/27/22 19:09	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/26/22 13:33	09/27/22 19:09	7440-38-2	
Barium	<b>0.020</b>	mg/L	0.0050	0.00067	1	09/26/22 13:33	09/27/22 19:09	7440-39-3	
Beryllium	<b>0.0017</b>	mg/L	0.00050	0.000054	1	09/26/22 13:33	09/27/22 19:09	7440-41-7	
Boron	<b>3.7</b>	mg/L	0.40	0.086	10	09/26/22 13:33	09/28/22 15:11	7440-42-8	
Cadmium	<b>0.00055</b>	mg/L	0.00050	0.00011	1	09/26/22 13:33	09/27/22 19:09	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/26/22 13:33	09/27/22 19:09	7440-47-3	
Cobalt	<b>0.0029J</b>	mg/L	0.0050	0.00039	1	09/26/22 13:33	09/27/22 19:09	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/26/22 13:33	09/27/22 19:09	7439-92-1	
Lithium	<b>0.0052J</b>	mg/L	0.030	0.00073	1	09/26/22 13:33	09/27/22 19:09	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/26/22 13:33	09/27/22 19:09	7439-98-7	
Selenium	<b>0.0032J</b>	mg/L	0.0050	0.0014	1	09/26/22 13:33	09/27/22 19:09	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/26/22 13:33	09/27/22 19:09	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	10/04/22 13:15	10/04/22 16:46	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>1050</b>	mg/L	50.0	20.0	1		09/16/22 14:35		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	<b>54.0</b>	mg/L	5.0	5.0	1		09/20/22 13:30		
Alkalinity, Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	5.0	1		09/20/22 13:30		
Alkalinity, Total as CaCO <sub>3</sub>	<b>54.0</b>	mg/L	5.0	5.0	1		09/20/22 13:30		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>19.5</b>	mg/L	1.0	0.60	1		09/17/22 20:12	16887-00-6	

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### ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report

Pace Project No.: 92625178

**Sample: B-97**      **Lab ID: 92625178004**      Collected: 09/13/22 12:26      Received: 09/14/22 09:53      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	<b>0.14</b>	mg/L	0.10	0.050	1		09/17/22 20:12	16984-48-8	
Sulfate	<b>677</b>	mg/L	12.0	6.0	12		09/20/22 18:17	14808-79-8	

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## ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report  
Pace Project No.: 92625178

Sample: B-98		Lab ID: 92625178005		Collected: 09/13/22 11:58		Received: 09/14/22 09:53		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		09/19/22 07:26		
pH	<b>6.18</b>	Std. Units			1		09/19/22 07:26		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	<b>0.13</b>	mg/L	0.040	0.025	1	09/27/22 11:19	09/27/22 15:35	7439-89-6	
Potassium	<b>8.2</b>	mg/L	0.20	0.15	1	09/27/22 11:19	09/27/22 15:35	7440-09-7	
Sodium	<b>8.9</b>	mg/L	1.0	0.58	1	09/27/22 11:19	09/27/22 15:35	7440-23-5	
Calcium	<b>63.3</b>	mg/L	1.0	0.12	1	09/27/22 11:19	09/27/22 15:35	7440-70-2	
Magnesium	<b>4.7</b>	mg/L	0.050	0.012	1	09/27/22 11:19	09/27/22 15:35	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/26/22 13:33	09/27/22 19:15	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/26/22 13:33	09/27/22 19:15	7440-38-2	
Barium	<b>0.092</b>	mg/L	0.0050	0.00067	1	09/26/22 13:33	09/27/22 19:15	7440-39-3	
Beryllium	<b>0.000062J</b>	mg/L	0.00050	0.000054	1	09/26/22 13:33	09/27/22 19:15	7440-41-7	
Boron	<b>0.62</b>	mg/L	0.20	0.043	5	09/26/22 13:33	09/28/22 15:17	7440-42-8	
Cadmium	<b>0.00031J</b>	mg/L	0.00050	0.00011	1	09/26/22 13:33	09/27/22 19:15	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/26/22 13:33	09/27/22 19:15	7440-47-3	
Cobalt	<b>0.00063J</b>	mg/L	0.0050	0.00039	1	09/26/22 13:33	09/27/22 19:15	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/26/22 13:33	09/27/22 19:15	7439-92-1	
Lithium	<b>0.0011J</b>	mg/L	0.030	0.00073	1	09/26/22 13:33	09/27/22 19:15	7439-93-2	
Molybdenum	<b>0.00084J</b>	mg/L	0.010	0.00074	1	09/26/22 13:33	09/27/22 19:15	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/26/22 13:33	09/27/22 19:15	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/26/22 13:33	09/27/22 19:15	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	10/04/22 13:15	10/04/22 16:48	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>267</b>	mg/L	25.0	10.0	1		09/16/22 14:35		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	<b>102</b>	mg/L	5.0	5.0	1		09/20/22 13:52		
Alkalinity, Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	5.0	1		09/20/22 13:52		
Alkalinity, Total as CaCO <sub>3</sub>	<b>102</b>	mg/L	5.0	5.0	1		09/20/22 13:52		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>4.9</b>	mg/L	1.0	0.60	1		09/17/22 20:27	16887-00-6	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report

Pace Project No.: 92625178

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: B-98</b>									
<b>Lab ID: 92625178005</b>									
Collected: 09/13/22 11:58									
Received: 09/14/22 09:53									
Matrix: Water									
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	<b>0.18</b>	mg/L	0.10	0.050	1		09/17/22 20:27	16984-48-8	
Sulfate	<b>92.1</b>	mg/L	1.0	0.50	1		09/17/22 20:27	14808-79-8	

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## ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report  
Pace Project No.: 92625178

Sample: B-104D		Lab ID: 92625178006		Collected: 09/13/22 13:55		Received: 09/14/22 09:53		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		09/19/22 07:26		
pH	<b>6.49</b>	Std. Units			1		09/19/22 07:26		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	<b>10.3</b>	mg/L	0.040	0.025	1	09/27/22 11:19	09/27/22 15:40	7439-89-6	
Potassium	<b>8.2</b>	mg/L	0.20	0.15	1	09/27/22 11:19	09/27/22 15:40	7440-09-7	
Sodium	<b>19.6</b>	mg/L	1.0	0.58	1	09/27/22 11:19	09/27/22 15:40	7440-23-5	
Calcium	<b>153</b>	mg/L	1.0	0.12	1	09/27/22 11:19	09/27/22 15:40	7440-70-2	
Magnesium	<b>27.5</b>	mg/L	0.050	0.012	1	09/27/22 11:19	09/27/22 15:40	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/26/22 13:33	09/27/22 19:33	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/26/22 13:33	09/27/22 19:33	7440-38-2	
Barium	<b>0.021</b>	mg/L	0.0050	0.00067	1	09/26/22 13:33	09/27/22 19:33	7440-39-3	
Beryllium	<b>0.0014</b>	mg/L	0.00050	0.000054	1	09/26/22 13:33	09/27/22 19:33	7440-41-7	
Boron	<b>0.26</b>	mg/L	0.040	0.0086	1	09/26/22 13:33	09/28/22 15:23	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/26/22 13:33	09/27/22 19:33	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/26/22 13:33	09/27/22 19:33	7440-47-3	
Cobalt	<b>0.14</b>	mg/L	0.0050	0.00039	1	09/26/22 13:33	09/27/22 19:33	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/26/22 13:33	09/27/22 19:33	7439-92-1	
Lithium	<b>0.040</b>	mg/L	0.030	0.00073	1	09/26/22 13:33	09/28/22 15:23	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/26/22 13:33	09/27/22 19:33	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/26/22 13:33	09/27/22 19:33	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/26/22 13:33	09/27/22 19:33	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	10/04/22 13:15	10/04/22 16:51	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>832</b>	mg/L	50.0	20.0	1		09/16/22 14:35		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	<b>69.1</b>	mg/L	5.0	5.0	1		09/20/22 14:01		
Alkalinity, Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	5.0	1		09/20/22 14:01		
Alkalinity, Total as CaCO <sub>3</sub>	<b>69.1</b>	mg/L	5.0	5.0	1		09/20/22 14:01		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>8.0</b>	mg/L	1.0	0.60	1		09/17/22 21:12	16887-00-6	

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## ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report

Pace Project No.: 92625178

**Sample: B-104D**      **Lab ID: 92625178006**      Collected: 09/13/22 13:55      Received: 09/14/22 09:53      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	<b>0.35</b>	mg/L	0.10	0.050	1		09/17/22 21:12	16984-48-8	
Sulfate	<b>505</b>	mg/L	10.0	5.0	10		09/20/22 19:01	14808-79-8	

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## ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report  
Pace Project No.: 92625178

Sample: DUP-4		Lab ID: 92625178007		Collected: 09/13/22 00:00		Received: 09/14/22 09:53		Matrix: Water	
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	ND	mg/L	0.040	0.025	1	09/27/22 11:19	09/27/22 15:45	7439-89-6	
Potassium	2.3	mg/L	0.20	0.15	1	09/27/22 11:19	09/27/22 15:45	7440-09-7	
Sodium	8.9	mg/L	1.0	0.58	1	09/27/22 11:19	09/27/22 15:45	7440-23-5	
Calcium	33.5	mg/L	1.0	0.12	1	09/27/22 11:19	09/27/22 15:45	7440-70-2	
Magnesium	9.6	mg/L	0.050	0.012	1	09/27/22 11:19	09/27/22 15:45	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/26/22 13:33	09/27/22 19:39	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/26/22 13:33	09/27/22 19:39	7440-38-2	
Barium	0.024	mg/L	0.0050	0.00067	1	09/26/22 13:33	09/27/22 19:39	7440-39-3	
Beryllium	0.00038J	mg/L	0.00050	0.000054	1	09/26/22 13:33	09/27/22 19:39	7440-41-7	
Boron	0.32	mg/L	0.040	0.0086	1	09/26/22 13:33	09/28/22 15:29	7440-42-8	
Cadmium	0.00028J	mg/L	0.00050	0.00011	1	09/26/22 13:33	09/27/22 19:39	7440-43-9	
Chromium	0.0021J	mg/L	0.0050	0.0011	1	09/26/22 13:33	09/27/22 19:39	7440-47-3	
Cobalt	0.012	mg/L	0.0050	0.00039	1	09/26/22 13:33	09/27/22 19:39	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/26/22 13:33	09/27/22 19:39	7439-92-1	
Lithium	0.0025J	mg/L	0.030	0.00073	1	09/26/22 13:33	09/27/22 19:39	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/26/22 13:33	09/27/22 19:39	7439-98-7	
Selenium	0.023	mg/L	0.0050	0.0014	1	09/26/22 13:33	09/27/22 19:39	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/26/22 13:33	09/27/22 19:39	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	10/04/22 13:15	10/04/22 16:59	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	214	mg/L	25.0	10.0	1		09/16/22 14:35		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	37.8	mg/L	5.0	5.0	1		09/20/22 14:18		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 14:18		
Alkalinity, Total as CaCO3	37.8	mg/L	5.0	5.0	1		09/20/22 14:18		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	2.5	mg/L	1.0	0.60	1		09/17/22 21:27	16887-00-6	
Fluoride	0.083J	mg/L	0.10	0.050	1		09/17/22 21:27	16984-48-8	
Sulfate	108	mg/L	2.0	1.0	2		09/20/22 19:46	14808-79-8	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report  
Pace Project No.: 92625178

Sample: B-77		Lab ID: 92625178008		Collected: 09/13/22 14:21		Received: 09/14/22 09:53		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		09/19/22 07:27		
pH	<b>6.34</b>	Std. Units			1		09/19/22 07:27		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	<b>29.8</b>	mg/L	0.040	0.025	1	09/27/22 11:19	09/27/22 15:49	7439-89-6	
Potassium	<b>1.1</b>	mg/L	0.20	0.15	1	09/27/22 11:19	09/27/22 15:49	7440-09-7	
Sodium	<b>7.7</b>	mg/L	1.0	0.58	1	09/27/22 11:19	09/27/22 15:49	7440-23-5	
Calcium	<b>15.7</b>	mg/L	1.0	0.12	1	09/27/22 11:19	09/27/22 15:49	7440-70-2	
Magnesium	<b>4.6</b>	mg/L	0.050	0.012	1	09/27/22 11:19	09/27/22 15:49	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/27/22 11:00	09/28/22 20:26	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/27/22 11:00	09/28/22 20:26	7440-38-2	
Barium	<b>0.089</b>	mg/L	0.0050	0.00067	1	09/27/22 11:00	09/28/22 20:26	7440-39-3	
Beryllium	<b>0.00013J</b>	mg/L	0.00050	0.000054	1	09/27/22 11:00	09/28/22 20:26	7440-41-7	
Boron	<b>0.33</b>	mg/L	0.040	0.0086	1	09/27/22 11:00	09/28/22 20:26	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/27/22 11:00	09/28/22 20:26	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/27/22 11:00	09/28/22 20:26	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/27/22 11:00	09/28/22 20:26	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/27/22 11:00	09/28/22 20:26	7439-92-1	
Lithium	<b>0.0020J</b>	mg/L	0.030	0.00073	1	09/27/22 11:00	09/28/22 20:26	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/27/22 11:00	09/28/22 20:26	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/27/22 11:00	09/28/22 20:26	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/27/22 11:00	09/28/22 20:26	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	10/04/22 13:15	10/04/22 17:01	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>113</b>	mg/L	25.0	10.0	1		09/16/22 14:35		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	<b>86.2</b>	mg/L	5.0	5.0	1		09/20/22 14:25		
Alkalinity, Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	5.0	1		09/20/22 14:25		
Alkalinity, Total as CaCO <sub>3</sub>	<b>86.2</b>	mg/L	5.0	5.0	1		09/20/22 14:25		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>2.4</b>	mg/L	1.0	0.60	1		09/17/22 21:42	16887-00-6	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report

Pace Project No.: 92625178

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**Sample: B-77**      **Lab ID: 92625178008**      Collected: 09/13/22 14:21      Received: 09/14/22 09:53      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	<b>0.080J</b>	mg/L	0.10	0.050	1		09/17/22 21:42	16984-48-8	
Sulfate	<b>10.0</b>	mg/L	1.0	0.50	1		09/17/22 21:42	14808-79-8	

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## ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report  
Pace Project No.: 92625178

Sample: B-63		Lab ID: 92625178009		Collected: 09/14/22 12:56		Received: 09/15/22 08:20		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		09/15/22 17:24		
pH	<b>5.31</b>	Std. Units			1		09/15/22 17:24		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	<b>1.6</b>	mg/L	0.040	0.025	1	09/27/22 11:19	09/27/22 15:54	7439-89-6	
Potassium	<b>2.7</b>	mg/L	0.20	0.15	1	09/27/22 11:19	09/27/22 15:54	7440-09-7	
Sodium	<b>13.0</b>	mg/L	1.0	0.58	1	09/27/22 11:19	09/27/22 15:54	7440-23-5	
Calcium	<b>26.3</b>	mg/L	1.0	0.12	1	09/27/22 11:19	09/27/22 15:54	7440-70-2	
Magnesium	<b>9.3</b>	mg/L	0.050	0.012	1	09/27/22 11:19	09/27/22 15:54	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/27/22 11:00	09/28/22 20:50	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/27/22 11:00	09/28/22 20:50	7440-38-2	
Barium	<b>0.032</b>	mg/L	0.0050	0.00067	1	09/27/22 11:00	09/28/22 20:50	7440-39-3	
Beryllium	<b>0.00053</b>	mg/L	0.00050	0.000054	1	09/27/22 11:00	09/28/22 20:50	7440-41-7	
Boron	<b>0.38</b>	mg/L	0.040	0.0086	1	09/27/22 11:00	09/28/22 20:50	7440-42-8	
Cadmium	<b>0.00018J</b>	mg/L	0.00050	0.00011	1	09/27/22 11:00	09/28/22 20:50	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/27/22 11:00	09/28/22 20:50	7440-47-3	
Cobalt	<b>0.050</b>	mg/L	0.0050	0.00039	1	09/27/22 11:00	09/28/22 20:50	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/27/22 11:00	09/28/22 20:50	7439-92-1	
Lithium	<b>0.0072J</b>	mg/L	0.030	0.00073	1	09/27/22 11:00	09/28/22 20:50	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/27/22 11:00	09/28/22 20:50	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/27/22 11:00	09/28/22 20:50	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/27/22 11:00	09/28/22 20:50	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	10/04/22 13:15	10/04/22 17:04	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>206</b>	mg/L	25.0	10.0	1		09/19/22 09:17		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	<b>33.2</b>	mg/L	5.0	5.0	1		09/20/22 15:43		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 15:43		
Alkalinity, Total as CaCO3	<b>33.2</b>	mg/L	5.0	5.0	1		09/20/22 15:43		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>6.5</b>	mg/L	1.0	0.60	1		09/19/22 03:48	16887-00-6	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report

Pace Project No.: 92625178

Sample: B-63		Lab ID: 92625178009		Collected: 09/14/22 12:56		Received: 09/15/22 08:20		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Fluoride	<b>0.14</b>	mg/L	0.10	0.050	1		09/19/22 03:48	16984-48-8	
Sulfate	<b>93.3</b>	mg/L	1.0	0.50	1		09/19/22 03:48	14808-79-8	

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## ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report  
Pace Project No.: 92625178

Sample: B-107D		Lab ID: 92625178010		Collected: 09/14/22 10:15		Received: 09/15/22 08:20		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		09/15/22 17:25		
pH	<b>5.87</b>	Std. Units			1		09/15/22 17:25		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	<b>0.36</b>	mg/L	0.040	0.025	1	09/27/22 11:19	09/27/22 15:59	7439-89-6	
Potassium	<b>5.9</b>	mg/L	0.20	0.15	1	09/27/22 11:19	09/27/22 15:59	7440-09-7	
Sodium	<b>19.2</b>	mg/L	1.0	0.58	1	09/27/22 11:19	09/27/22 15:59	7440-23-5	
Calcium	<b>82.6</b>	mg/L	1.0	0.12	1	09/27/22 11:19	09/27/22 15:59	7440-70-2	
Magnesium	<b>30.4</b>	mg/L	0.050	0.012	1	09/27/22 11:19	09/27/22 15:59	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/27/22 11:00	09/28/22 20:56	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/27/22 11:00	09/28/22 20:56	7440-38-2	
Barium	<b>0.057</b>	mg/L	0.0050	0.00067	1	09/27/22 11:00	09/28/22 20:56	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/27/22 11:00	09/28/22 20:56	7440-41-7	
Boron	<b>11.2</b>	mg/L	2.0	0.43	50	09/27/22 11:00	09/29/22 14:30	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/27/22 11:00	09/28/22 20:56	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/27/22 11:00	09/28/22 20:56	7440-47-3	
Cobalt	<b>0.00061J</b>	mg/L	0.0050	0.00039	1	09/27/22 11:00	09/28/22 20:56	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/27/22 11:00	09/28/22 20:56	7439-92-1	
Lithium	<b>0.015J</b>	mg/L	0.030	0.00073	1	09/27/22 11:00	09/28/22 20:56	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/27/22 11:00	09/28/22 20:56	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/27/22 11:00	09/28/22 20:56	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/27/22 11:00	09/28/22 20:56	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	10/04/22 13:15	10/04/22 17:07	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>582</b>	mg/L	25.0	10.0	1		09/19/22 09:17		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	<b>28.0</b>	mg/L	5.0	5.0	1		09/20/22 15:51		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 15:51		
Alkalinity, Total as CaCO3	<b>28.0</b>	mg/L	5.0	5.0	1		09/20/22 15:51		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>12.9</b>	mg/L	1.0	0.60	1		09/19/22 04:03	16887-00-6	

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## ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report

Pace Project No.: 92625178

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**Sample: B-107D**                      **Lab ID: 92625178010**    Collected: 09/14/22 10:15    Received: 09/15/22 08:20    Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	<b>0.053J</b>	mg/L	0.10	0.050	1		09/19/22 04:03	16984-48-8	
Sulfate	<b>327</b>	mg/L	7.0	3.5	7		09/19/22 19:18	14808-79-8	

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## ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report  
Pace Project No.: 92625178

Sample: B-111D		Lab ID: 92625178011		Collected: 09/14/22 15:11		Received: 09/15/22 08:20		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		09/15/22 17:25		
pH	<b>7.09</b>	Std. Units			1		09/15/22 17:25		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	<b>2.2</b>	mg/L	0.040	0.025	1	09/27/22 11:19	09/27/22 16:04	7439-89-6	
Potassium	<b>6.2</b>	mg/L	0.20	0.15	1	09/27/22 11:19	09/27/22 16:04	7440-09-7	
Sodium	<b>38.8</b>	mg/L	1.0	0.58	1	09/27/22 11:19	09/27/22 16:04	7440-23-5	
Calcium	<b>90.7</b>	mg/L	1.0	0.12	1	09/27/22 11:19	09/27/22 16:04	7440-70-2	
Magnesium	<b>8.8</b>	mg/L	0.050	0.012	1	09/27/22 11:19	09/27/22 16:04	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/27/22 11:00	09/28/22 21:02	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/27/22 11:00	09/28/22 21:02	7440-38-2	
Barium	<b>0.028</b>	mg/L	0.0050	0.00067	1	09/27/22 11:00	09/28/22 21:02	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/27/22 11:00	09/28/22 21:02	7440-41-7	
Boron	<b>0.24</b>	mg/L	0.040	0.0086	1	09/27/22 11:00	09/28/22 21:02	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/27/22 11:00	09/28/22 21:02	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/27/22 11:00	09/28/22 21:02	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/27/22 11:00	09/28/22 21:02	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/27/22 11:00	09/28/22 21:02	7439-92-1	
Lithium	<b>0.020J</b>	mg/L	0.030	0.00073	1	09/27/22 11:00	09/28/22 21:02	7439-93-2	
Molybdenum	<b>0.0069J</b>	mg/L	0.010	0.00074	1	09/27/22 11:00	09/28/22 21:02	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/27/22 11:00	09/28/22 21:02	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/27/22 11:00	09/28/22 21:02	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	10/04/22 13:15	10/04/22 17:09	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>470</b>	mg/L	25.0	10.0	1		09/19/22 09:21		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	<b>112</b>	mg/L	5.0	5.0	1		09/20/22 15:57		
Alkalinity, Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	5.0	1		09/20/22 15:57		
Alkalinity, Total as CaCO <sub>3</sub>	<b>112</b>	mg/L	5.0	5.0	1		09/20/22 15:57		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>10.3</b>	mg/L	1.0	0.60	1		09/19/22 04:18	16887-00-6	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report

Pace Project No.: 92625178

**Sample: B-111D**      **Lab ID: 92625178011**      Collected: 09/14/22 15:11      Received: 09/15/22 08:20      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	<b>0.38</b>	mg/L	0.10	0.050	1		09/19/22 04:18	16984-48-8	
Sulfate	<b>228</b>	mg/L	5.0	2.5	5		09/19/22 21:06	14808-79-8	

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### ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report  
Pace Project No.: 92625178

Sample: B-115D		Lab ID: 92625178012		Collected: 09/14/22 15:26		Received: 09/15/22 08:20		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		09/15/22 17:25		
pH	<b>5.76</b>	Std. Units			1		09/15/22 17:25		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	<b>7.5</b>	mg/L	0.040	0.025	1	09/27/22 11:19	09/27/22 16:26	7439-89-6	
Potassium	<b>10.1</b>	mg/L	0.20	0.15	1	09/27/22 11:19	09/27/22 16:26	7440-09-7	
Sodium	<b>21.8</b>	mg/L	1.0	0.58	1	09/27/22 11:19	09/27/22 16:26	7440-23-5	
Calcium	<b>65.5</b>	mg/L	1.0	0.12	1	09/27/22 11:19	09/27/22 16:26	7440-70-2	
Magnesium	<b>16.6</b>	mg/L	0.050	0.012	1	09/27/22 11:19	09/27/22 16:26	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/27/22 18:00	09/29/22 00:49	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/27/22 18:00	09/29/22 00:49	7440-38-2	
Barium	<b>0.014</b>	mg/L	0.0050	0.00067	1	09/27/22 18:00	09/29/22 00:49	7440-39-3	
Beryllium	<b>0.010</b>	mg/L	0.00050	0.000054	1	09/27/22 18:00	09/29/22 00:49	7440-41-7	
Boron	<b>0.58</b>	mg/L	0.040	0.0086	1	09/27/22 18:00	09/29/22 00:49	7440-42-8	
Cadmium	<b>0.00018J</b>	mg/L	0.00050	0.00011	1	09/27/22 18:00	09/29/22 00:49	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/27/22 18:00	09/29/22 00:49	7440-47-3	
Cobalt	<b>0.23</b>	mg/L	0.0050	0.00039	1	09/27/22 18:00	09/29/22 00:49	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/27/22 18:00	09/29/22 00:49	7439-92-1	
Lithium	<b>0.082</b>	mg/L	0.030	0.00073	1	09/27/22 18:00	09/29/22 00:49	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/27/22 18:00	09/29/22 00:49	7439-98-7	
Selenium	<b>0.0045J</b>	mg/L	0.0050	0.0014	1	09/27/22 18:00	09/29/22 00:49	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/27/22 18:00	09/29/22 00:49	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	10/04/22 13:15	10/04/22 17:12	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>519</b>	mg/L	25.0	10.0	1		09/19/22 09:21		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	<b>8.9</b>	mg/L	5.0	5.0	1		09/20/22 16:16		
Alkalinity, Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	5.0	1		09/20/22 16:16		
Alkalinity, Total as CaCO <sub>3</sub>	<b>8.9</b>	mg/L	5.0	5.0	1		09/20/22 16:16		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>10.7</b>	mg/L	1.0	0.60	1		09/19/22 05:03	16887-00-6	

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### ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report

Pace Project No.: 92625178

**Sample: B-115D**      **Lab ID: 92625178012**      Collected: 09/14/22 15:26      Received: 09/15/22 08:20      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	<b>0.63</b>	mg/L	0.10	0.050	1		09/19/22 05:03	16984-48-8	
Sulfate	<b>297</b>	mg/L	6.0	3.0	6		09/19/22 21:50	14808-79-8	

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## ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report  
Pace Project No.: 92625178

Sample: FB-5		Lab ID: 92625178013		Collected: 09/14/22 12:20	Received: 09/15/22 08:20	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
<b>6010D ATL ICP</b>		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/27/22 11:19	09/27/22 16:31	7439-89-6		
Potassium	ND	mg/L	0.20	0.15	1	09/27/22 11:19	09/27/22 16:31	7440-09-7		
Sodium	ND	mg/L	1.0	0.58	1	09/27/22 11:19	09/27/22 16:31	7440-23-5		
Calcium	ND	mg/L	1.0	0.12	1	09/27/22 11:19	09/27/22 16:31	7440-70-2		
Magnesium	ND	mg/L	0.050	0.012	1	09/27/22 11:19	09/27/22 16:31	7439-95-4		
<b>6020 MET ICPMS</b>		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/27/22 18:00	09/29/22 00:55	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.0022	1	09/27/22 18:00	09/29/22 00:55	7440-38-2		
Barium	<b>0.0024J</b>	mg/L	0.0050	0.00067	1	09/27/22 18:00	09/29/22 00:55	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000054	1	09/27/22 18:00	09/29/22 00:55	7440-41-7		
Boron	<b>0.018J</b>	mg/L	0.040	0.0086	1	09/27/22 18:00	09/29/22 00:55	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00011	1	09/27/22 18:00	09/29/22 00:55	7440-43-9		
Chromium	ND	mg/L	0.0050	0.0011	1	09/27/22 18:00	09/29/22 00:55	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00039	1	09/27/22 18:00	09/29/22 00:55	7440-48-4		
Lead	ND	mg/L	0.0010	0.00089	1	09/27/22 18:00	09/29/22 00:55	7439-92-1		
Lithium	ND	mg/L	0.030	0.00073	1	09/27/22 18:00	09/29/22 00:55	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00074	1	09/27/22 18:00	09/29/22 00:55	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0014	1	09/27/22 18:00	09/29/22 00:55	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00018	1	09/27/22 18:00	09/29/22 00:55	7440-28-0		
<b>7470 Mercury</b>		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	10/04/22 13:15	10/04/22 17:14	7439-97-6		
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	10.0	1		09/19/22 09:21			
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 16:21			
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 16:21			
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/20/22 16:21			
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		09/19/22 17:00	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		09/19/22 17:00	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		09/19/22 17:00	14808-79-8		

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## ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report  
Pace Project No.: 92625178

Sample: B-102D		Lab ID: 92625623012		Collected: 09/15/22 12:00		Received: 09/16/22 16:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		09/19/22 10:27		
pH	<b>5.43</b>	Std. Units			1		09/19/22 10:27		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	<b>0.033J</b>	mg/L	0.040	0.025	1	09/26/22 14:09	09/26/22 22:14	7439-89-6	
Potassium	<b>6.2</b>	mg/L	0.20	0.15	1	09/26/22 14:09	09/26/22 22:14	7440-09-7	
Sodium	<b>17.9</b>	mg/L	1.0	0.58	1	09/26/22 14:09	09/26/22 22:14	7440-23-5	
Calcium	<b>70.3</b>	mg/L	1.0	0.12	1	09/26/22 14:09	09/26/22 22:14	7440-70-2	
Magnesium	<b>15.0</b>	mg/L	0.050	0.012	1	09/26/22 14:09	09/26/22 22:14	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/26/22 13:33	09/27/22 19:57	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/26/22 13:33	09/27/22 19:57	7440-38-2	
Barium	<b>0.019</b>	mg/L	0.0050	0.00067	1	09/26/22 13:33	09/27/22 19:57	7440-39-3	
Beryllium	<b>0.0010</b>	mg/L	0.00050	0.000054	1	09/26/22 13:33	09/27/22 19:57	7440-41-7	
Boron	<b>2.3</b>	mg/L	0.40	0.086	10	09/26/22 13:33	09/28/22 16:01	7440-42-8	
Cadmium	<b>0.00091</b>	mg/L	0.00050	0.00011	1	09/26/22 13:33	09/27/22 19:57	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/26/22 13:33	09/27/22 19:57	7440-47-3	
Cobalt	<b>0.012</b>	mg/L	0.0050	0.00039	1	09/26/22 13:33	09/27/22 19:57	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/26/22 13:33	09/27/22 19:57	7439-92-1	
Lithium	<b>0.013J</b>	mg/L	0.030	0.00073	1	09/26/22 13:33	09/27/22 19:57	7439-93-2	
Molybdenum	<b>0.0015J</b>	mg/L	0.010	0.00074	1	09/26/22 13:33	09/27/22 19:57	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/26/22 13:33	09/27/22 19:57	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/26/22 13:33	09/27/22 19:57	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/27/22 07:45	09/27/22 12:51	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>437</b>	mg/L	25.0	10.0	1		09/20/22 13:21		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	<b>11.6</b>	mg/L	5.0	5.0	1		09/20/22 17:21		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 17:21		
Alkalinity, Total as CaCO3	<b>11.6</b>	mg/L	5.0	5.0	1		09/20/22 17:21		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>9.9</b>	mg/L	1.0	0.60	1		09/20/22 19:38	16887-00-6	

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## ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report

Pace Project No.: 92625178

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**Sample: B-102D**                      **Lab ID: 92625623012**    Collected: 09/15/22 12:00    Received: 09/16/22 16:30    Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	<b>0.11</b>	mg/L	0.10	0.050	1		09/20/22 19:38	16984-48-8	
Sulfate	<b>258</b>	mg/L	5.0	2.5	5		09/21/22 12:11	14808-79-8	

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## ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report  
Pace Project No.: 92625178

Sample: B-108D		Lab ID: 92625623013		Collected: 09/15/22 14:05		Received: 09/16/22 16:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>FLDWGB</b>				1		09/19/22 10:27		
pH	<b>5.86</b>	Std. Units			1		09/19/22 10:27		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	<b>0.40</b>	mg/L	0.040	0.025	1	09/26/22 14:09	09/26/22 22:19	7439-89-6	
Potassium	<b>5.5</b>	mg/L	0.20	0.15	1	09/26/22 14:09	09/26/22 22:19	7440-09-7	
Sodium	<b>17.9</b>	mg/L	1.0	0.58	1	09/26/22 14:09	09/26/22 22:19	7440-23-5	
Calcium	<b>85.1</b>	mg/L	1.0	0.12	1	09/26/22 14:09	09/26/22 22:19	7440-70-2	
Magnesium	<b>34.4</b>	mg/L	0.050	0.012	1	09/26/22 14:09	09/26/22 22:19	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/26/22 13:33	09/27/22 20:03	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/26/22 13:33	09/27/22 20:03	7440-38-2	
Barium	<b>0.054</b>	mg/L	0.0050	0.00067	1	09/26/22 13:33	09/27/22 20:03	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/26/22 13:33	09/27/22 20:03	7440-41-7	
Boron	<b>7.1</b>	mg/L	0.40	0.086	10	09/26/22 13:33	09/28/22 16:07	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/26/22 13:33	09/27/22 20:03	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/26/22 13:33	09/27/22 20:03	7440-47-3	
Cobalt	<b>0.0010J</b>	mg/L	0.0050	0.00039	1	09/26/22 13:33	09/27/22 20:03	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/26/22 13:33	09/27/22 20:03	7439-92-1	
Lithium	<b>0.016J</b>	mg/L	0.030	0.00073	1	09/26/22 13:33	09/27/22 20:03	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/26/22 13:33	09/27/22 20:03	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/26/22 13:33	09/27/22 20:03	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/26/22 13:33	09/27/22 20:03	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/27/22 07:45	09/27/22 12:53	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>540</b>	mg/L	50.0	20.0	1		09/20/22 13:21		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	<b>27.4</b>	mg/L	5.0	5.0	1		09/20/22 17:27		
Alkalinity, Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	5.0	1		09/20/22 17:27		
Alkalinity, Total as CaCO <sub>3</sub>	<b>27.4</b>	mg/L	5.0	5.0	1		09/20/22 17:27		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>27.6</b>	mg/L	1.0	0.60	1		09/20/22 19:53	16887-00-6	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report

Pace Project No.: 92625178

**Sample: B-108D**      **Lab ID: 92625623013**      Collected: 09/15/22 14:05      Received: 09/16/22 16:30      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	<b>0.061J</b>	mg/L	0.10	0.050	1		09/20/22 19:53	16984-48-8	
Sulfate	<b>318</b>	mg/L	6.0	3.0	6		09/21/22 12:32	14808-79-8	

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### ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report  
Pace Project No.: 92625178

Sample: <b>FB-6</b>		Lab ID: <b>92625623014</b>		Collected: 09/15/22 14:05	Received: 09/16/22 16:30	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
<b>6010D ATL ICP</b>		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/26/22 14:09	09/26/22 22:24	7439-89-6		
Potassium	ND	mg/L	0.20	0.15	1	09/26/22 14:09	09/26/22 22:24	7440-09-7		
Sodium	ND	mg/L	1.0	0.58	1	09/26/22 14:09	09/26/22 22:24	7440-23-5		
Calcium	ND	mg/L	1.0	0.12	1	09/26/22 14:09	09/26/22 22:24	7440-70-2		
Magnesium	ND	mg/L	0.050	0.012	1	09/26/22 14:09	09/26/22 22:24	7439-95-4		
<b>6020 MET ICPMS</b>		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/26/22 13:33	09/27/22 20:09	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.0022	1	09/26/22 13:33	09/27/22 20:09	7440-38-2		
Barium	ND	mg/L	0.0050	0.00067	1	09/26/22 13:33	09/27/22 20:09	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000054	1	09/26/22 13:33	09/27/22 20:09	7440-41-7		
Boron	ND	mg/L	0.040	0.0086	1	09/26/22 13:33	09/28/22 16:13	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00011	1	09/26/22 13:33	09/27/22 20:09	7440-43-9		
Chromium	ND	mg/L	0.0050	0.0011	1	09/26/22 13:33	09/27/22 20:09	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00039	1	09/26/22 13:33	09/27/22 20:09	7440-48-4		
Lead	ND	mg/L	0.0010	0.00089	1	09/26/22 13:33	09/27/22 20:09	7439-92-1		
Lithium	ND	mg/L	0.030	0.00073	1	09/26/22 13:33	09/27/22 20:09	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00074	1	09/26/22 13:33	09/27/22 20:09	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0014	1	09/26/22 13:33	09/27/22 20:09	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00018	1	09/26/22 13:33	09/27/22 20:09	7440-28-0		
<b>7470 Mercury</b>		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/27/22 07:45	09/27/22 12:56	7439-97-6		
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	<b>83.0</b>	mg/L	25.0	10.0	1		09/20/22 13:21			
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 17:33			
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 17:33			
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/20/22 17:33			
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		09/20/22 20:08	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		09/20/22 20:08	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		09/20/22 20:08	14808-79-8		

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report  
Pace Project No.: 92625178

Sample: B-56		Lab ID: 92625178017		Collected: 09/16/22 10:13		Received: 09/16/22 16:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		09/19/22 10:50		
pH	<b>4.56</b>	Std. Units			1		09/19/22 10:50		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	<b>0.052</b>	mg/L	0.040	0.025	1	09/27/22 11:19	09/27/22 16:35	7439-89-6	
Potassium	<b>5.0</b>	mg/L	0.20	0.15	1	09/27/22 11:19	09/27/22 16:35	7440-09-7	
Sodium	<b>22.2</b>	mg/L	1.0	0.58	1	09/27/22 11:19	09/27/22 16:35	7440-23-5	
Calcium	<b>18.4</b>	mg/L	1.0	0.12	1	09/27/22 11:19	09/27/22 16:35	7440-70-2	
Magnesium	<b>34.1</b>	mg/L	0.050	0.012	1	09/27/22 11:19	09/27/22 16:35	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/27/22 18:00	09/29/22 01:13	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/27/22 18:00	09/29/22 01:13	7440-38-2	
Barium	<b>0.028</b>	mg/L	0.0050	0.00067	1	09/27/22 18:00	09/29/22 01:13	7440-39-3	
Beryllium	<b>0.0013</b>	mg/L	0.00050	0.000054	1	09/27/22 18:00	09/29/22 01:13	7440-41-7	
Boron	<b>1.6</b>	mg/L	0.040	0.0086	1	09/27/22 18:00	09/29/22 01:13	7440-42-8	
Cadmium	<b>0.00030J</b>	mg/L	0.00050	0.00011	1	09/27/22 18:00	09/29/22 01:13	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/27/22 18:00	09/29/22 01:13	7440-47-3	
Cobalt	<b>0.051</b>	mg/L	0.0050	0.00039	1	09/27/22 18:00	09/29/22 01:13	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/27/22 18:00	09/29/22 01:13	7439-92-1	
Lithium	<b>0.0057J</b>	mg/L	0.030	0.00073	1	09/27/22 18:00	09/29/22 01:13	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/27/22 18:00	09/29/22 01:13	7439-98-7	
Selenium	<b>0.010</b>	mg/L	0.0050	0.0014	1	09/27/22 18:00	09/29/22 01:13	7782-49-2	
Thallium	<b>0.00024J</b>	mg/L	0.0010	0.00018	1	09/27/22 18:00	09/29/22 01:13	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	10/04/22 13:15	10/04/22 17:17	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>353</b>	mg/L	25.0	10.0	1		09/20/22 13:22		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	5.0	1		09/21/22 21:15		
Alkalinity, Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	5.0	1		09/21/22 21:15		
Alkalinity, Total as CaCO <sub>3</sub>	ND	mg/L	5.0	5.0	1		09/21/22 21:15		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>6.9</b>	mg/L	1.0	0.60	1		09/21/22 00:21	16887-00-6	

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## ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report

Pace Project No.: 92625178

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**Sample: B-56**                      **Lab ID: 92625178017**    Collected: 09/16/22 10:13    Received: 09/16/22 16:30    Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	<b>0.22</b>	mg/L	0.10	0.050	1		09/21/22 00:21	16984-48-8	
Sulfate	<b>234</b>	mg/L	5.0	2.5	5		09/21/22 16:05	14808-79-8	

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## ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report  
Pace Project No.: 92625178

Sample: B-66		Lab ID: 92625178018		Collected: 09/16/22 10:10		Received: 09/16/22 16:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		09/19/22 10:51		
pH	<b>6.60</b>	Std. Units			1		09/19/22 10:51		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	<b>3.0</b>	mg/L	0.040	0.025	1	09/28/22 12:36	09/28/22 17:24	7439-89-6	
Potassium	<b>5.5</b>	mg/L	0.20	0.15	1	09/28/22 12:36	09/28/22 17:24	7440-09-7	
Sodium	<b>30.5</b>	mg/L	1.0	0.58	1	09/28/22 12:36	09/28/22 17:24	7440-23-5	
Calcium	<b>63.9</b>	mg/L	1.0	0.12	1	09/28/22 12:36	09/28/22 17:24	7440-70-2	
Magnesium	<b>44.0</b>	mg/L	0.050	0.012	1	09/28/22 12:36	09/28/22 17:24	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/27/22 18:00	09/29/22 01:19	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/27/22 18:00	09/29/22 01:19	7440-38-2	
Barium	<b>0.020</b>	mg/L	0.0050	0.00067	1	09/27/22 18:00	09/29/22 01:19	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/27/22 18:00	09/29/22 01:19	7440-41-7	
Boron	<b>2.2</b>	mg/L	0.040	0.0086	1	09/27/22 18:00	09/29/22 01:19	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/27/22 18:00	09/29/22 01:19	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/27/22 18:00	09/29/22 01:19	7440-47-3	
Cobalt	<b>0.012</b>	mg/L	0.0050	0.00039	1	09/27/22 18:00	09/29/22 01:19	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/27/22 18:00	09/29/22 01:19	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/27/22 18:00	09/29/22 01:19	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/27/22 18:00	09/29/22 01:19	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/27/22 18:00	09/29/22 01:19	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/27/22 18:00	09/29/22 01:19	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	10/04/22 13:15	10/04/22 17:20	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>498</b>	mg/L	50.0	20.0	1		09/20/22 13:22		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	<b>119</b>	mg/L	5.0	5.0	1		09/21/22 21:20		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/21/22 21:20		
Alkalinity, Total as CaCO3	<b>119</b>	mg/L	5.0	5.0	1		09/21/22 21:20		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>8.4</b>	mg/L	1.0	0.60	1		09/21/22 00:36	16887-00-6	

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### ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report

Pace Project No.: 92625178

Sample: B-66		Lab ID: 92625178018		Collected: 09/16/22 10:10	Received: 09/16/22 16:30	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Fluoride	<b>0.18</b>	mg/L	0.10	0.050	1		09/21/22 00:36	16984-48-8	
Sulfate	<b>285</b>	mg/L	6.0	3.0	6		09/21/22 16:19	14808-79-8	

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### ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report  
Pace Project No.: 92625178

Sample: B-88		Lab ID: 92625178019		Collected: 09/16/22 10:44		Received: 09/16/22 16:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		09/19/22 10:51		
pH	<b>5.47</b>	Std. Units			1		09/19/22 10:51		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	<b>0.25</b>	mg/L	0.040	0.025	1	09/28/22 12:36	09/28/22 17:28	7439-89-6	
Potassium	<b>11.3</b>	mg/L	0.20	0.15	1	09/28/22 12:36	09/28/22 17:28	7440-09-7	
Sodium	<b>28.6</b>	mg/L	1.0	0.58	1	09/28/22 12:36	09/28/22 17:28	7440-23-5	
Calcium	<b>97.6</b>	mg/L	1.0	0.12	1	09/28/22 12:36	09/28/22 17:28	7440-70-2	
Magnesium	<b>35.7</b>	mg/L	0.050	0.012	1	09/28/22 12:36	09/28/22 17:28	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/27/22 18:00	09/29/22 01:24	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/27/22 18:00	09/29/22 01:24	7440-38-2	
Barium	<b>0.016</b>	mg/L	0.0050	0.00067	1	09/27/22 18:00	09/29/22 01:24	7440-39-3	
Beryllium	<b>0.0013</b>	mg/L	0.00050	0.000054	1	09/27/22 18:00	09/29/22 01:24	7440-41-7	
Boron	<b>2.1</b>	mg/L	0.040	0.0086	1	09/27/22 18:00	09/29/22 01:24	7440-42-8	
Cadmium	<b>0.0019</b>	mg/L	0.00050	0.00011	1	09/27/22 18:00	09/29/22 01:24	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/27/22 18:00	09/29/22 01:24	7440-47-3	
Cobalt	<b>0.0014J</b>	mg/L	0.0050	0.00039	1	09/27/22 18:00	09/29/22 01:24	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/27/22 18:00	09/29/22 01:24	7439-92-1	
Lithium	<b>0.0021J</b>	mg/L	0.030	0.00073	1	09/27/22 18:00	09/29/22 01:24	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/27/22 18:00	09/29/22 01:24	7439-98-7	
Selenium	<b>0.0020J</b>	mg/L	0.0050	0.0014	1	09/27/22 18:00	09/29/22 01:24	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/27/22 18:00	09/29/22 01:24	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	10/04/22 13:15	10/04/22 17:28	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>564</b>	mg/L	50.0	20.0	1		09/20/22 13:22		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	<b>15.8</b>	mg/L	5.0	5.0	1		09/21/22 21:30		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/21/22 21:30		
Alkalinity, Total as CaCO3	<b>15.8</b>	mg/L	5.0	5.0	1		09/21/22 21:30		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>8.7</b>	mg/L	1.0	0.60	1		09/21/22 00:51	16887-00-6	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report

Pace Project No.: 92625178

**Sample: B-88**      **Lab ID: 92625178019**      Collected: 09/16/22 10:44      Received: 09/16/22 16:30      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	<b>0.054J</b>	mg/L	0.10	0.050	1		09/21/22 00:51	16984-48-8	
Sulfate	<b>433</b>	mg/L	9.0	4.5	9		09/21/22 16:34	14808-79-8	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report  
Pace Project No.: 92625178

Sample: B-101D		Lab ID: 92625178020		Collected: 09/16/22 11:30		Received: 09/16/22 16:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		09/19/22 10:51		
pH	<b>5.92</b>	Std. Units			1		09/19/22 10:51		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	<b>0.11</b>	mg/L	0.040	0.025	1	09/28/22 12:36	09/28/22 17:33	7439-89-6	
Potassium	<b>6.0</b>	mg/L	0.20	0.15	1	09/28/22 12:36	09/28/22 17:33	7440-09-7	
Sodium	<b>18.9</b>	mg/L	1.0	0.58	1	09/28/22 12:36	09/28/22 17:33	7440-23-5	
Calcium	<b>57.0</b>	mg/L	1.0	0.12	1	09/28/22 12:36	09/28/22 17:33	7440-70-2	
Magnesium	<b>20.7</b>	mg/L	0.050	0.012	1	09/28/22 12:36	09/28/22 17:33	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/27/22 18:00	09/29/22 01:30	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/27/22 18:00	09/29/22 01:30	7440-38-2	
Barium	<b>0.063</b>	mg/L	0.0050	0.00067	1	09/27/22 18:00	09/29/22 01:30	7440-39-3	
Beryllium	<b>0.000067J</b>	mg/L	0.00050	0.000054	1	09/27/22 18:00	09/29/22 01:30	7440-41-7	
Boron	<b>1.4</b>	mg/L	0.040	0.0086	1	09/27/22 18:00	09/29/22 01:30	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/27/22 18:00	09/29/22 01:30	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/27/22 18:00	09/29/22 01:30	7440-47-3	
Cobalt	<b>0.0035J</b>	mg/L	0.0050	0.00039	1	09/27/22 18:00	09/29/22 01:30	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/27/22 18:00	09/29/22 01:30	7439-92-1	
Lithium	<b>0.011J</b>	mg/L	0.030	0.00073	1	09/27/22 18:00	09/29/22 01:30	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/27/22 18:00	09/29/22 01:30	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/27/22 18:00	09/29/22 01:30	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/27/22 18:00	09/29/22 01:30	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	10/04/22 13:15	10/04/22 17:30	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>365</b>	mg/L	25.0	10.0	1		09/20/22 13:27		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	<b>35.5</b>	mg/L	5.0	5.0	1		09/21/22 21:35		
Alkalinity, Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	5.0	1		09/21/22 21:35		
Alkalinity, Total as CaCO <sub>3</sub>	<b>35.5</b>	mg/L	5.0	5.0	1		09/21/22 21:35		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>8.7</b>	mg/L	1.0	0.60	1		09/21/22 01:06	16887-00-6	

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### ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report

Pace Project No.: 92625178

**Sample: B-101D**      **Lab ID: 92625178020**      Collected: 09/16/22 11:30      Received: 09/16/22 16:30      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	<b>0.099J</b>	mg/L	0.10	0.050	1		09/21/22 01:06	16984-48-8	
Sulfate	<b>223</b>	mg/L	4.0	2.0	4		09/21/22 16:49	14808-79-8	

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## ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report  
Pace Project No.: 92625178

Sample: B-106D		Lab ID: 92625178021		Collected: 09/16/22 09:16		Received: 09/16/22 16:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		09/19/22 10:52		
pH	<b>5.82</b>	Std. Units			1		09/19/22 10:52		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	<b>0.031J</b>	mg/L	0.040	0.025	1	09/28/22 12:36	09/28/22 17:38	7439-89-6	
Potassium	<b>3.8</b>	mg/L	0.20	0.15	1	09/28/22 12:36	09/28/22 17:38	7440-09-7	
Sodium	<b>14.6</b>	mg/L	1.0	0.58	1	09/28/22 12:36	09/28/22 17:38	7440-23-5	
Calcium	<b>35.3</b>	mg/L	1.0	0.12	1	09/28/22 12:36	09/28/22 17:38	7440-70-2	
Magnesium	<b>16.7</b>	mg/L	0.050	0.012	1	09/28/22 12:36	09/28/22 17:38	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/27/22 18:00	09/29/22 01:48	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/27/22 18:00	09/29/22 01:48	7440-38-2	
Barium	<b>0.021</b>	mg/L	0.0050	0.00067	1	09/27/22 18:00	09/29/22 01:48	7440-39-3	
Beryllium	<b>0.00011J</b>	mg/L	0.00050	0.000054	1	09/27/22 18:00	09/29/22 01:48	7440-41-7	
Boron	<b>1.0</b>	mg/L	0.040	0.0086	1	09/27/22 18:00	09/29/22 01:48	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/27/22 18:00	09/29/22 01:48	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/27/22 18:00	09/29/22 01:48	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/27/22 18:00	09/29/22 01:48	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/27/22 18:00	09/29/22 01:48	7439-92-1	
Lithium	<b>0.0054J</b>	mg/L	0.030	0.00073	1	09/27/22 18:00	09/29/22 01:48	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/27/22 18:00	09/29/22 01:48	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/27/22 18:00	09/29/22 01:48	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/27/22 18:00	09/29/22 01:48	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	10/04/22 13:15	10/04/22 17:33	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>240</b>	mg/L	25.0	10.0	1		09/20/22 13:27		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	<b>29.9</b>	mg/L	5.0	5.0	1		09/21/22 21:52		
Alkalinity, Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	5.0	1		09/21/22 21:52		
Alkalinity, Total as CaCO <sub>3</sub>	<b>29.9</b>	mg/L	5.0	5.0	1		09/21/22 21:52		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>6.6</b>	mg/L	1.0	0.60	1		09/21/22 01:21	16887-00-6	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report

Pace Project No.: 92625178

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**Sample: B-106D**                      **Lab ID: 92625178021**    Collected: 09/16/22 09:16    Received: 09/16/22 16:30    Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	<b>0.080J</b>	mg/L	0.10	0.050	1		09/21/22 01:21	16984-48-8	
Sulfate	<b>137</b>	mg/L	3.0	1.5	3		09/21/22 17:03	14808-79-8	

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## ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report  
Pace Project No.: 92625178

Sample: B-82		Lab ID: 92625178022		Collected: 09/16/22 12:15		Received: 09/16/22 16:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		09/19/22 10:52		
pH	<b>5.02</b>	Std. Units			1		09/19/22 10:52		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	<b>0.064</b>	mg/L	0.040	0.025	1	09/28/22 12:36	09/28/22 17:43	7439-89-6	
Potassium	<b>5.3</b>	mg/L	0.20	0.15	1	09/28/22 12:36	09/28/22 17:43	7440-09-7	
Sodium	<b>17.1</b>	mg/L	1.0	0.58	1	09/28/22 12:36	09/28/22 17:43	7440-23-5	
Calcium	<b>34.3</b>	mg/L	1.0	0.12	1	09/28/22 12:36	09/28/22 17:43	7440-70-2	
Magnesium	<b>79.6</b>	mg/L	0.050	0.012	1	09/28/22 12:36	09/28/22 17:43	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/27/22 18:00	09/29/22 01:54	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/27/22 18:00	09/29/22 01:54	7440-38-2	
Barium	<b>0.020</b>	mg/L	0.0050	0.00067	1	09/27/22 18:00	09/29/22 01:54	7440-39-3	
Beryllium	<b>0.0020</b>	mg/L	0.00050	0.000054	1	09/27/22 18:00	09/29/22 01:54	7440-41-7	
Boron	<b>0.61</b>	mg/L	0.040	0.0086	1	09/27/22 18:00	09/29/22 01:54	7440-42-8	
Cadmium	<b>0.00073</b>	mg/L	0.00050	0.00011	1	09/27/22 18:00	09/29/22 01:54	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/27/22 18:00	09/29/22 01:54	7440-47-3	
Cobalt	<b>0.0017J</b>	mg/L	0.0050	0.00039	1	09/27/22 18:00	09/29/22 01:54	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/27/22 18:00	09/29/22 01:54	7439-92-1	
Lithium	<b>0.00078J</b>	mg/L	0.030	0.00073	1	09/27/22 18:00	09/29/22 01:54	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/27/22 18:00	09/29/22 01:54	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/27/22 18:00	09/29/22 01:54	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/27/22 18:00	09/29/22 01:54	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	10/04/22 13:15	10/04/22 17:35	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>468</b>	mg/L	50.0	20.0	1		09/20/22 13:27		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	<b>5.0</b>	mg/L	5.0	5.0	1		09/21/22 21:59		
Alkalinity, Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	5.0	1		09/21/22 21:59		
Alkalinity, Total as CaCO <sub>3</sub>	<b>5.0</b>	mg/L	5.0	5.0	1		09/21/22 21:59		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>9.4</b>	mg/L	1.0	0.60	1		09/21/22 01:36	16887-00-6	

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## ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report

Pace Project No.: 92625178

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**Sample: B-82**                      **Lab ID: 92625178022**    Collected: 09/16/22 12:15    Received: 09/16/22 16:30    Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	<b>0.079J</b>	mg/L	0.10	0.050	1		09/21/22 01:36	16984-48-8	
Sulfate	<b>404</b>	mg/L	8.0	4.0	8		09/21/22 17:18	14808-79-8	

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## ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report  
Pace Project No.: 92625178

Sample: B-120D		Lab ID: 92625178023		Collected: 09/19/22 14:55		Received: 09/20/22 09:50		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		09/20/22 11:29		
pH	<b>5.21</b>	Std. Units			1		09/20/22 11:29		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	<b>0.070</b>	mg/L	0.040	0.025	1	09/28/22 12:36	09/28/22 18:23	7439-89-6	
Potassium	<b>9.3</b>	mg/L	0.20	0.15	1	09/28/22 12:36	09/28/22 18:23	7440-09-7	
Sodium	<b>33.1</b>	mg/L	1.0	0.58	1	09/28/22 12:36	09/28/22 18:23	7440-23-5	
Calcium	<b>142</b>	mg/L	1.0	0.12	1	09/28/22 12:36	09/28/22 18:23	7440-70-2	
Magnesium	<b>31.8</b>	mg/L	0.050	0.012	1	09/28/22 12:36	09/28/22 18:23	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/27/22 18:00	09/29/22 02:00	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/27/22 18:00	09/29/22 02:00	7440-38-2	
Barium	<b>0.023</b>	mg/L	0.0050	0.00067	1	09/27/22 18:00	09/29/22 02:00	7440-39-3	
Beryllium	<b>0.0011</b>	mg/L	0.00050	0.000054	1	09/27/22 18:00	09/29/22 02:00	7440-41-7	
Boron	<b>1.7</b>	mg/L	0.040	0.0086	1	09/27/22 18:00	09/29/22 02:00	7440-42-8	
Cadmium	<b>0.0012</b>	mg/L	0.00050	0.00011	1	09/27/22 18:00	09/29/22 02:00	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/27/22 18:00	09/29/22 02:00	7440-47-3	
Cobalt	<b>0.0027J</b>	mg/L	0.0050	0.00039	1	09/27/22 18:00	09/29/22 02:00	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/27/22 18:00	09/29/22 02:00	7439-92-1	
Lithium	<b>0.076</b>	mg/L	0.030	0.00073	1	09/27/22 18:00	09/29/22 02:00	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/27/22 18:00	09/29/22 02:00	7439-98-7	
Selenium	<b>0.0038J</b>	mg/L	0.0050	0.0014	1	09/27/22 18:00	09/29/22 02:00	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/27/22 18:00	09/29/22 02:00	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	10/04/22 13:15	10/04/22 17:38	7439-97-6	
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	<b>27.8</b>	mg/L	5.0	5.0	1		09/22/22 08:18		
Alkalinity, Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	5.0	1		09/22/22 08:18		
Alkalinity, Total as CaCO <sub>3</sub>	<b>27.8</b>	mg/L	5.0	5.0	1		09/22/22 08:18		
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2011									
Pace Analytical Services - Asheville									
Total Dissolved Solids	<b>867</b>	mg/L	25.0	25.0	1		09/23/22 10:02		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>5.8</b>	mg/L	1.0	0.60	1		09/22/22 04:33	16887-00-6	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report

Pace Project No.: 92625178

**Sample: B-120D**      **Lab ID: 92625178023**      Collected: 09/19/22 14:55      Received: 09/20/22 09:50      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	<b>0.057J</b>	mg/L	0.10	0.050	1		09/22/22 04:33	16984-48-8	
Sulfate	<b>489</b>	mg/L	8.0	4.0	8		09/22/22 10:53	14808-79-8	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report  
Pace Project No.: 92625178

Sample: EB-6		Lab ID: 92625178024		Collected: 09/19/22 15:30		Received: 09/20/22 09:50		Matrix: Water	
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	ND	mg/L	0.040	0.025	1	09/28/22 12:36	09/28/22 18:28	7439-89-6	
Potassium	ND	mg/L	0.20	0.15	1	09/28/22 12:36	09/28/22 18:28	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	09/28/22 12:36	09/28/22 18:28	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	09/28/22 12:36	09/28/22 18:28	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	09/28/22 12:36	09/28/22 18:28	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/27/22 18:00	09/29/22 02:06	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/27/22 18:00	09/29/22 02:06	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	09/27/22 18:00	09/29/22 02:06	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/27/22 18:00	09/29/22 02:06	7440-41-7	
Boron	<b>0.019J</b>	mg/L	0.040	0.0086	1	09/27/22 18:00	09/29/22 02:06	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/27/22 18:00	09/29/22 02:06	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/27/22 18:00	09/29/22 02:06	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/27/22 18:00	09/29/22 02:06	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/27/22 18:00	09/29/22 02:06	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/27/22 18:00	09/29/22 02:06	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/27/22 18:00	09/29/22 02:06	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/27/22 18:00	09/29/22 02:06	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/27/22 18:00	09/29/22 02:06	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	10/04/22 13:15	10/04/22 17:41	7439-97-6	
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/22/22 08:26		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/22/22 08:26		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/22/22 08:26		
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2011									
Pace Analytical Services - Asheville									
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		09/23/22 10:02		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		09/22/22 04:48	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/22/22 04:48	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		09/22/22 04:48	14808-79-8	

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## ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report  
Pace Project No.: 92625178

Sample: B-109D		Lab ID: 92625178025		Collected: 09/20/22 14:33		Received: 09/21/22 15:05		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		09/21/22 16:48		
pH	<b>6.38</b>	Std. Units			1		09/21/22 16:48		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	<b>13.6</b>	mg/L	0.040	0.025	1	09/28/22 12:36	09/28/22 18:32	7439-89-6	
Potassium	<b>7.4</b>	mg/L	0.20	0.15	1	09/28/22 12:36	09/28/22 18:32	7440-09-7	
Sodium	<b>22.1</b>	mg/L	1.0	0.58	1	09/28/22 12:36	09/28/22 18:32	7440-23-5	
Calcium	<b>40.5</b>	mg/L	1.0	0.12	1	09/28/22 12:36	09/28/22 18:32	7440-70-2	
Magnesium	<b>11.7</b>	mg/L	0.050	0.012	1	09/28/22 12:36	09/28/22 18:32	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/27/22 18:00	09/29/22 02:12	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/27/22 18:00	09/29/22 02:12	7440-38-2	
Barium	<b>0.055</b>	mg/L	0.0050	0.00067	1	09/27/22 18:00	09/29/22 02:12	7440-39-3	
Beryllium	<b>0.000080J</b>	mg/L	0.00050	0.000054	1	09/27/22 18:00	09/29/22 02:12	7440-41-7	
Boron	<b>0.61</b>	mg/L	0.040	0.0086	1	09/27/22 18:00	09/29/22 02:12	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/27/22 18:00	09/29/22 02:12	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/27/22 18:00	09/29/22 02:12	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/27/22 18:00	09/29/22 02:12	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/27/22 18:00	09/29/22 02:12	7439-92-1	
Lithium	<b>0.013J</b>	mg/L	0.030	0.00073	1	09/27/22 18:00	09/29/22 02:12	7439-93-2	
Molybdenum	<b>0.0014J</b>	mg/L	0.010	0.00074	1	09/27/22 18:00	09/29/22 02:12	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/27/22 18:00	09/29/22 02:12	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/27/22 18:00	09/29/22 02:12	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	10/04/22 13:15	10/04/22 17:43	7439-97-6	
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	<b>96.2</b>	mg/L	5.0	5.0	1		09/22/22 23:01		
Alkalinity, Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	5.0	1		09/22/22 23:01		
Alkalinity, Total as CaCO <sub>3</sub>	<b>96.2</b>	mg/L	5.0	5.0	1		09/22/22 23:01		
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2011									
Pace Analytical Services - Asheville									
Total Dissolved Solids	<b>327</b>	mg/L	25.0	25.0	1		09/23/22 10:03		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>3.5</b>	mg/L	1.0	0.60	1		09/23/22 03:26	16887-00-6	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report

Pace Project No.: 92625178

**Sample: B-109D**      **Lab ID: 92625178025**      Collected: 09/20/22 14:33      Received: 09/21/22 15:05      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	<b>0.15</b>	mg/L	0.10	0.050	1		09/23/22 03:26	16984-48-8	
Sulfate	<b>108</b>	mg/L	2.0	1.0	2		09/23/22 12:12	14808-79-8	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Assessment-Revised Report  
Pace Project No.: 92625178

QC Batch: 725787 Analysis Method: EPA 6010D  
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL  
Laboratory: Pace Analytical Services - Peachtree Corners, GA  
Associated Lab Samples: 92625623012, 92625623013, 92625623014

METHOD BLANK: 3780823 Matrix: Water  
Associated Lab Samples: 92625623012, 92625623013, 92625623014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/26/22 20:39	
Iron	mg/L	ND	0.040	0.025	09/26/22 20:39	
Magnesium	mg/L	ND	0.050	0.012	09/26/22 20:39	
Potassium	mg/L	ND	0.20	0.15	09/26/22 20:39	
Sodium	mg/L	ND	1.0	0.58	09/26/22 20:39	

LABORATORY CONTROL SAMPLE: 3780824

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	105	80-120	
Iron	mg/L	1	1.0	104	80-120	
Magnesium	mg/L	1	1.1	106	80-120	
Potassium	mg/L	1	0.98	98	80-120	
Sodium	mg/L	1	1.1	113	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3780825 3780826

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92625623001 Result	Spike Conc.	Spike Conc.	Result						
Calcium	mg/L	11.2	1	1	11.8	12.0	61	81	75-125	2	20 M1
Iron	mg/L	0.040	1	1	1.1	1.1	102	101	75-125	1	20
Magnesium	mg/L	4.7	1	1	5.5	5.6	83	94	75-125	2	20
Potassium	mg/L	3.2	1	1	4.1	4.1	95	93	75-125	0	20
Sodium	mg/L	7.0	1	1	7.7	7.8	73	80	75-125	1	20 M1

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### QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Assessment-Revised Report  
Pace Project No.: 92625178

QC Batch: 726040 Analysis Method: EPA 6010D  
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL  
Laboratory: Pace Analytical Services - Peachtree Corners, GA  
Associated Lab Samples: 92625178003, 92625178004, 92625178005, 92625178006, 92625178007, 92625178008, 92625178009, 92625178010, 92625178011, 92625178012, 92625178013, 92625178017

METHOD BLANK: 3781867 Matrix: Water  
Associated Lab Samples: 92625178003, 92625178004, 92625178005, 92625178006, 92625178007, 92625178008, 92625178009, 92625178010, 92625178011, 92625178012, 92625178013, 92625178017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/27/22 14:37	
Iron	mg/L	ND	0.040	0.025	09/27/22 14:37	
Magnesium	mg/L	ND	0.050	0.012	09/27/22 14:37	
Potassium	mg/L	ND	0.20	0.15	09/27/22 14:37	
Sodium	mg/L	ND	1.0	0.58	09/27/22 14:37	

LABORATORY CONTROL SAMPLE: 3781868

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	103	80-120	
Iron	mg/L	1	1.1	106	80-120	
Magnesium	mg/L	1	1.1	107	80-120	
Potassium	mg/L	1	1.1	109	80-120	
Sodium	mg/L	1	1.0	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3781869 3781870

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92625178001 Result	Spike Conc.	Spike Conc.	Result						
Calcium	mg/L	104	1	1	105	103	64	-98	75-125	2	20 M1
Iron	mg/L	0.036J	1	1	1.0	0.96	97	93	75-125	4	20
Magnesium	mg/L	17.4	1	1	18.3	17.8	95	44	75-125	3	20 M1
Potassium	mg/L	5.7	1	1	6.7	6.7	96	94	75-125	0	20
Sodium	mg/L	18.4	1	1	19.4	19.1	97	76	75-125	1	20

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### QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Assessment-Revised Report  
Pace Project No.: 92625178

QC Batch:	726415	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92625178018, 92625178019, 92625178020, 92625178021, 92625178022, 92625178023, 92625178024, 92625178025

METHOD BLANK: 3783437 Matrix: Water  
Associated Lab Samples: 92625178018, 92625178019, 92625178020, 92625178021, 92625178022, 92625178023, 92625178024, 92625178025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/28/22 16:00	
Iron	mg/L	ND	0.040	0.025	09/28/22 16:00	
Magnesium	mg/L	ND	0.050	0.012	09/28/22 16:00	
Potassium	mg/L	ND	0.20	0.15	09/28/22 16:00	
Sodium	mg/L	ND	1.0	0.58	09/28/22 16:00	

LABORATORY CONTROL SAMPLE: 3783438

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	1.1	108	80-120	
Potassium	mg/L	1	1.0	100	80-120	
Sodium	mg/L	1	1.0	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3783439 3783440

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92625189005 Result	Spike Conc.	Spike Conc.	Result						
Calcium	mg/L	10.4	1	1	11.7	11.7	130	136	75-125	1	20 M1
Iron	mg/L	1.5	1	1	2.6	2.6	106	107	75-125	0	20
Magnesium	mg/L	3.2	1	1	4.3	4.4	113	123	75-125	2	20
Potassium	mg/L	2.0	1	1	3.0	3.1	103	108	75-125	2	20
Sodium	mg/L	10.2	1	1	11.5	11.5	129	135	75-125	0	20 M1

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### QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Assessment-Revised Report  
Pace Project No.: 92625178

QC Batch: 725788 Analysis Method: EPA 6020B  
QC Batch Method: EPA 3005A Analysis Description: 6020 MET  
Laboratory: Pace Analytical Services - Peachtree Corners, GA  
Associated Lab Samples: 92625178003, 92625178004, 92625178005, 92625178006, 92625178007, 92625623012, 92625623013, 92625623014

METHOD BLANK: 3780835 Matrix: Water  
Associated Lab Samples: 92625178003, 92625178004, 92625178005, 92625178006, 92625178007, 92625623012, 92625623013, 92625623014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/27/22 18:21	
Arsenic	mg/L	ND	0.0050	0.0022	09/27/22 18:21	
Barium	mg/L	ND	0.0050	0.00067	09/27/22 18:21	
Beryllium	mg/L	ND	0.00050	0.000054	09/27/22 18:21	
Boron	mg/L	ND	0.040	0.0086	09/27/22 18:21	
Cadmium	mg/L	ND	0.00050	0.00011	09/27/22 18:21	
Chromium	mg/L	ND	0.0050	0.0011	09/27/22 18:21	
Cobalt	mg/L	ND	0.0050	0.00039	09/27/22 18:21	
Lead	mg/L	ND	0.0010	0.00089	09/27/22 18:21	
Lithium	mg/L	ND	0.030	0.00073	09/27/22 18:21	
Molybdenum	mg/L	ND	0.010	0.00074	09/27/22 18:21	
Selenium	mg/L	ND	0.0050	0.0014	09/27/22 18:21	
Thallium	mg/L	ND	0.0010	0.00018	09/27/22 18:21	

LABORATORY CONTROL SAMPLE: 3780836

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	107	80-120	
Arsenic	mg/L	0.1	0.097	97	80-120	
Barium	mg/L	0.1	0.098	98	80-120	
Beryllium	mg/L	0.1	0.10	101	80-120	
Boron	mg/L	1	1.0	104	80-120	
Cadmium	mg/L	0.1	0.097	97	80-120	
Chromium	mg/L	0.1	0.099	99	80-120	
Cobalt	mg/L	0.1	0.096	96	80-120	
Lead	mg/L	0.1	0.099	99	80-120	
Lithium	mg/L	0.1	0.11	108	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	0.099	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3780837 3780838

Parameter	Units	92625178001 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	0.11	104	106	75-125	2	20	

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### QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Assessment-Revised Report  
Pace Project No.: 92625178

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3780837 3780838											
Parameter	Units	92625178001		MS		MSD		MS		MSD	
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	% Rec	Max RPD
Arsenic	mg/L	ND	0.1	0.1	0.10	0.099	99	98	75-125	1	20
Barium	mg/L	0.017	0.1	0.1	0.11	0.11	94	95	75-125	0	20
Beryllium	mg/L	0.017	0.1	0.1	0.11	0.11	94	92	75-125	2	20
Boron	mg/L	2.9	1	1	3.7	3.7	80	81	75-125	0	20
Cadmium	mg/L	0.0014	0.1	0.1	0.10	0.098	98	97	75-125	1	20
Chromium	mg/L	ND	0.1	0.1	0.092	0.093	91	92	75-125	1	20
Cobalt	mg/L	0.073	0.1	0.1	0.16	0.16	91	91	75-125	0	20
Lead	mg/L	ND	0.1	0.1	0.087	0.087	87	87	75-125	0	20
Lithium	mg/L	0.015J	0.1	0.1	0.12	0.12	102	102	75-125	1	20
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	101	99	75-125	2	20
Selenium	mg/L	0.012	0.1	0.1	0.11	0.11	96	96	75-125	0	20
Thallium	mg/L	0.00020J	0.1	0.1	0.088	0.088	88	88	75-125	0	20

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### QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Assessment-Revised Report  
Pace Project No.: 92625178

QC Batch: 726042 Analysis Method: EPA 6020B  
QC Batch Method: EPA 3005A Analysis Description: 6020 MET  
Laboratory: Pace Analytical Services - Peachtree Corners, GA  
Associated Lab Samples: 92625178008, 92625178009, 92625178010, 92625178011

METHOD BLANK: 3781878 Matrix: Water  
Associated Lab Samples: 92625178008, 92625178009, 92625178010, 92625178011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/28/22 20:14	
Arsenic	mg/L	ND	0.0050	0.0022	09/28/22 20:14	
Barium	mg/L	ND	0.0050	0.00067	09/28/22 20:14	
Beryllium	mg/L	ND	0.00050	0.000054	09/28/22 20:14	
Boron	mg/L	ND	0.040	0.0086	09/28/22 20:14	
Cadmium	mg/L	ND	0.00050	0.00011	09/28/22 20:14	
Chromium	mg/L	ND	0.0050	0.0011	09/28/22 20:14	
Cobalt	mg/L	ND	0.0050	0.00039	09/28/22 20:14	
Lead	mg/L	ND	0.0010	0.00089	09/28/22 20:14	
Lithium	mg/L	ND	0.030	0.00073	09/28/22 20:14	
Molybdenum	mg/L	ND	0.010	0.00074	09/28/22 20:14	
Selenium	mg/L	ND	0.0050	0.0014	09/28/22 20:14	
Thallium	mg/L	ND	0.0010	0.00018	09/28/22 20:14	

LABORATORY CONTROL SAMPLE: 3781879

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	0.098	98	80-120	
Barium	mg/L	0.1	0.098	98	80-120	
Beryllium	mg/L	0.1	0.10	101	80-120	
Boron	mg/L	1	1.0	102	80-120	
Cadmium	mg/L	0.1	0.10	102	80-120	
Chromium	mg/L	0.1	0.098	98	80-120	
Cobalt	mg/L	0.1	0.098	98	80-120	
Lead	mg/L	0.1	0.099	99	80-120	
Lithium	mg/L	0.1	0.11	105	80-120	
Molybdenum	mg/L	0.1	0.10	100	80-120	
Selenium	mg/L	0.1	0.098	98	80-120	
Thallium	mg/L	0.1	0.099	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3781880 3781881

Parameter	Units	92625178008 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	105	105	75-125	0	20	
Arsenic	mg/L	ND	0.1	0.1	0.099	0.099	99	99	75-125	1	20	

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### QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Assessment-Revised Report

Pace Project No.: 92625178

Parameter	Units	92625178008		3781880		3781881		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		MS	MSD	MS	MSD	MS	MSD							
Barium	mg/L	0.089	0.1	0.1	0.1	0.19	0.19	100	99	75-125	0	20		
Beryllium	mg/L	0.00013J	0.1	0.1	0.1	0.096	0.097	96	97	75-125	1	20		
Boron	mg/L	0.33	1	1	1	1.3	1.3	99	101	75-125	2	20		
Cadmium	mg/L	ND	0.1	0.1	0.1	0.10	0.10	103	103	75-125	0	20		
Chromium	mg/L	ND	0.1	0.1	0.1	0.095	0.096	95	95	75-125	0	20		
Cobalt	mg/L	ND	0.1	0.1	0.1	0.097	0.096	97	96	75-125	1	20		
Lead	mg/L	ND	0.1	0.1	0.1	0.099	0.097	98	97	75-125	2	20		
Lithium	mg/L	0.0020J	0.1	0.1	0.1	0.10	0.10	100	100	75-125	0	20		
Molybdenum	mg/L	ND	0.1	0.1	0.1	0.10	0.10	102	101	75-125	1	20		
Selenium	mg/L	ND	0.1	0.1	0.1	0.098	0.097	98	97	75-125	1	20		
Thallium	mg/L	ND	0.1	0.1	0.1	0.098	0.097	98	97	75-125	1	20		

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### QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Assessment-Revised Report  
Pace Project No.: 92625178

QC Batch:	726202	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3005A	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92625178012, 92625178013, 92625178017, 92625178018, 92625178019, 92625178020, 92625178021, 92625178022, 92625178023, 92625178024, 92625178025

METHOD BLANK: 3782708 Matrix: Water  
Associated Lab Samples: 92625178012, 92625178013, 92625178017, 92625178018, 92625178019, 92625178020, 92625178021, 92625178022, 92625178023, 92625178024, 92625178025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/28/22 23:25	
Arsenic	mg/L	ND	0.0050	0.0022	09/28/22 23:25	
Barium	mg/L	ND	0.0050	0.00067	09/28/22 23:25	
Beryllium	mg/L	ND	0.00050	0.000054	09/28/22 23:25	
Boron	mg/L	ND	0.040	0.0086	09/28/22 23:25	
Cadmium	mg/L	ND	0.00050	0.00011	09/28/22 23:25	
Chromium	mg/L	ND	0.0050	0.0011	09/28/22 23:25	
Cobalt	mg/L	ND	0.0050	0.00039	09/28/22 23:25	
Lead	mg/L	ND	0.0010	0.00089	09/28/22 23:25	
Lithium	mg/L	ND	0.030	0.00073	09/28/22 23:25	
Molybdenum	mg/L	ND	0.010	0.00074	09/28/22 23:25	
Selenium	mg/L	ND	0.0050	0.0014	09/28/22 23:25	
Thallium	mg/L	ND	0.0010	0.00018	09/28/22 23:25	

LABORATORY CONTROL SAMPLE: 3782709

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	106	80-120	
Arsenic	mg/L	0.1	0.097	97	80-120	
Barium	mg/L	0.1	0.098	98	80-120	
Beryllium	mg/L	0.1	0.099	99	80-120	
Boron	mg/L	1	0.99	99	80-120	
Cadmium	mg/L	0.1	0.10	100	80-120	
Chromium	mg/L	0.1	0.096	96	80-120	
Cobalt	mg/L	0.1	0.099	99	80-120	
Lead	mg/L	0.1	0.098	98	80-120	
Lithium	mg/L	0.1	0.10	100	80-120	
Molybdenum	mg/L	0.1	0.10	102	80-120	
Selenium	mg/L	0.1	0.098	98	80-120	
Thallium	mg/L	0.1	0.098	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3782710 3782711

Parameter	Units	92625189001 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	0.10	0.10	100	103	75-125	3	20	

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### QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Assessment-Revised Report  
Pace Project No.: 92625178

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3782710 3782711												
Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		92625189001 Result	Spike Conc.	Spike Conc.	MS Result							
Arsenic	mg/L	ND	0.1	0.1	0.095	0.097	95	97	75-125	1	20	
Barium	mg/L	0.014	0.1	0.1	0.11	0.11	93	96	75-125	3	20	
Beryllium	mg/L	0.0018	0.1	0.1	0.093	0.092	91	91	75-125	0	20	
Boron	mg/L	2.6	1	1	3.7	3.7	107	107	75-125	0	20	
Cadmium	mg/L	0.00092	0.1	0.1	0.098	0.10	97	100	75-125	2	20	
Chromium	mg/L	ND	0.1	0.1	0.090	0.089	90	89	75-125	1	20	
Cobalt	mg/L	0.0032J	0.1	0.1	0.094	0.094	90	91	75-125	1	20	
Lead	mg/L	ND	0.1	0.1	0.090	0.091	90	90	75-125	0	20	
Lithium	mg/L	0.0052J	0.1	0.1	0.10	0.10	97	96	75-125	1	20	
Molybdenum	mg/L	ND	0.1	0.1	0.094	0.095	93	95	75-125	1	20	
Selenium	mg/L	0.0020J	0.1	0.1	0.099	0.098	97	96	75-125	1	20	
Thallium	mg/L	0.00020J	0.1	0.1	0.091	0.090	91	90	75-125	1	20	

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### QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Assessment-Revised Report  
Pace Project No.: 92625178

QC Batch: 725890 Analysis Method: EPA 7470A  
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury  
Laboratory: Pace Analytical Services - Peachtree Corners, GA  
Associated Lab Samples: 92625623012, 92625623013, 92625623014

METHOD BLANK: 3781485 Matrix: Water  
Associated Lab Samples: 92625623012, 92625623013, 92625623014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	09/27/22 11:00	

LABORATORY CONTROL SAMPLE: 3781486

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0022	88	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3781487 3781488

Parameter	Units	3781487		3781488		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	0.0018	94	71	75-125	28	20	M1,R1

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**QUALITY CONTROL DATA**

Project: McDonough AP-2-3/4 Assessment-Revised Report  
Pace Project No.: 92625178

QC Batch:	727738	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92625178003, 92625178004, 92625178005, 92625178006, 92625178007, 92625178008, 92625178009, 92625178010, 92625178011, 92625178012, 92625178013, 92625178017, 92625178018, 92625178019, 92625178020, 92625178021, 92625178022, 92625178023, 92625178024, 92625178025

METHOD BLANK: 3789719 Matrix: Water  
Associated Lab Samples: 92625178003, 92625178004, 92625178005, 92625178006, 92625178007, 92625178008, 92625178009, 92625178010, 92625178011, 92625178012, 92625178013, 92625178017, 92625178018, 92625178019, 92625178020, 92625178021, 92625178022, 92625178023, 92625178024, 92625178025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	10/04/22 16:27	

LABORATORY CONTROL SAMPLE: 3789720

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: 3789721 3789722

Parameter	Units	92625178003 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	88	88	75-125	1	20	

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### QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Assessment-Revised Report  
Pace Project No.: 92625178

QC Batch: 723649 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: 92625178003, 92625178004, 92625178005, 92625178006, 92625178007, 92625178008

METHOD BLANK: 3770574 Matrix: Water  
Associated Lab Samples: 92625178003, 92625178004, 92625178005, 92625178006, 92625178007, 92625178008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	10.0	09/16/22 14:32	

LABORATORY CONTROL SAMPLE: 3770575

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	376	94	80-120	

SAMPLE DUPLICATE: 3770576

Parameter	Units	92625261006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	119	120	1	10	

SAMPLE DUPLICATE: 3770577

Parameter	Units	92625178007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	214	213	0	10	

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### QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Assessment-Revised Report  
Pace Project No.: 92625178

QC Batch: 724043 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: 92625178009, 92625178010, 92625178011, 92625178012, 92625178013

METHOD BLANK: 3772705 Matrix: Water  
Associated Lab Samples: 92625178009, 92625178010, 92625178011, 92625178012, 92625178013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	10.0	09/19/22 09:17	

LABORATORY CONTROL SAMPLE: 3772706

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	386	96	80-120	

SAMPLE DUPLICATE: 3772708

Parameter	Units	92625623010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	572	582	2	10	

SAMPLE DUPLICATE: 3772903

Parameter	Units	92625178010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	582	578	1	10	

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### QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Assessment-Revised Report  
Pace Project No.: 92625178

QC Batch: 724233 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: 92625178017, 92625178018, 92625178019, 92625178020, 92625178021, 92625178022, 92625623012, 92625623013, 92625623014

METHOD BLANK: 3773743 Matrix: Water  
Associated Lab Samples: 92625178017, 92625178018, 92625178019, 92625178020, 92625178021, 92625178022, 92625623012, 92625623013, 92625623014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	10.0	09/20/22 13:21	

LABORATORY CONTROL SAMPLE: 3773744

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	346	86	80-120	

SAMPLE DUPLICATE: 3773745

Parameter	Units	92625623012 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	437	420	4	10	

SAMPLE DUPLICATE: 3773746

Parameter	Units	92625623021 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	440	405	8	10	

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### QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Assessment-Revised Report  
Pace Project No.: 92625178

QC Batch: 724377 Analysis Method: SM 2320B-2011  
QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity  
Laboratory: Pace Analytical Services - Asheville  
Associated Lab Samples: 92625178003, 92625178004, 92625178005, 92625178006, 92625178007, 92625178008

METHOD BLANK: 3774158 Matrix: Water  
Associated Lab Samples: 92625178003, 92625178004, 92625178005, 92625178006, 92625178007, 92625178008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	09/20/22 11:40	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	09/20/22 11:40	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	09/20/22 11:40	

LABORATORY CONTROL SAMPLE: 3774159

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: 3774160

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.1	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3774163 3774164

Parameter	Units	3774163		3774164		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92625178004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Alkalinity, Total as CaCO3	mg/L	54.0	50	50	108	107	108	106	80-120	1	25		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3774267 3774268

Parameter	Units	3774267		3774268		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92625623018 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Alkalinity, Total as CaCO3	mg/L	33.6	50	50	77.4	78.7	88	90	80-120	2	25		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Assessment-Revised Report  
Pace Project No.: 92625178

QC Batch: 724379 Analysis Method: SM 2320B-2011  
QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity  
Laboratory: Pace Analytical Services - Asheville  
Associated Lab Samples: 92625178009, 92625178010, 92625178011, 92625178012, 92625178013, 92625623012, 92625623013, 92625623014

METHOD BLANK: 3774170 Matrix: Water  
Associated Lab Samples: 92625178009, 92625178010, 92625178011, 92625178012, 92625178013, 92625623012, 92625623013, 92625623014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	09/20/22 15:05	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	09/20/22 15:05	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	09/20/22 15:05	

LABORATORY CONTROL SAMPLE: 3774171

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.8	104	80-120	

LABORATORY CONTROL SAMPLE: 3774172

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.4	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3774173 3774174

Parameter	Units	92625623006		3774173		3774174		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Result	MSD Result	MS Result	MSD Result					
Alkalinity, Total as CaCO3	mg/L	ND	50	50	50.8	51.4	102	103	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3774175 3774176

Parameter	Units	92625623011		3774175		3774176		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Result	MSD Result	MS Result	MSD Result					
Alkalinity, Total as CaCO3	mg/L	ND	50	50	56.4	56.1	104	104	80-120	1	25	

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### QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Assessment-Revised Report  
Pace Project No.: 92625178

QC Batch: 724724 Analysis Method: SM 2320B-2011  
QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity  
Laboratory: Pace Analytical Services - Asheville  
Associated Lab Samples: 92625178017, 92625178018, 92625178019, 92625178020, 92625178021, 92625178022, 92625178023, 92625178024

METHOD BLANK: 3775744 Matrix: Water  
Associated Lab Samples: 92625178017, 92625178018, 92625178019, 92625178020, 92625178021, 92625178022, 92625178023, 92625178024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	09/21/22 20:39	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	09/21/22 20:39	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	09/21/22 20:39	

LABORATORY CONTROL SAMPLE: 3775745

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.4	103	80-120	

LABORATORY CONTROL SAMPLE: 3775746

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.0	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3775747 3775748

Parameter	Units	92626314001		3775748		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
Alkalinity, Total as CaCO3	mg/L	24.7	50	50	76.3	74.5	103	99	80-120	2	25

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3775749 3775750

Parameter	Units	92626676015		3775750		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
Alkalinity, Total as CaCO3	mg/L	ND	50	50	52.0	51.2	103	102	80-120	2	25

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### QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Assessment-Revised Report  
Pace Project No.: 92625178

QC Batch: 725081      Analysis Method: SM 2320B-2011  
QC Batch Method: SM 2320B-2011      Analysis Description: 2320B Alkalinity  
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92625178025

METHOD BLANK: 3777562      Matrix: Water  
Associated Lab Samples: 92625178025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	09/23/22 14:29	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	09/23/22 14:29	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	09/23/22 14:29	

LABORATORY CONTROL SAMPLE: 3777563

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.5	101	80-120	

LABORATORY CONTROL SAMPLE: 3777564

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.4	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3777565      3777566

Parameter	Units	92626727004		3777565		3777566		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					MS % Rec
Alkalinity, Total as CaCO3	mg/L	449	449	50	50	471	468	43	37	80-120	1	25 M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3777567      3777568

Parameter	Units	92626727005		3777567		3777568		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					MS % Rec
Alkalinity, Total as CaCO3	mg/L	149	149	50	50	207	200	116	103	80-120	3	25

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### QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Assessment-Revised Report  
Pace Project No.: 92625178

QC Batch: 725355 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: 92625178023, 92625178024, 92625178025

METHOD BLANK: 3778984 Matrix: Water  
Associated Lab Samples: 92625178023, 92625178024, 92625178025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	09/23/22 10:01	

LABORATORY CONTROL SAMPLE: 3778985

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	242	97	90-110	

SAMPLE DUPLICATE: 3778986

Parameter	Units	92626923001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	29.0	33.0	13	25	

SAMPLE DUPLICATE: 3778987

Parameter	Units	92626865001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2430	2480	2	25	

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### QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Assessment-Revised Report  
Pace Project No.: 92625178

QC Batch: 723824 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: 92625178003, 92625178004, 92625178005, 92625178006, 92625178007, 92625178008

METHOD BLANK: 3771604 Matrix: Water  
Associated Lab Samples: 92625178003, 92625178004, 92625178005, 92625178006, 92625178007, 92625178008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/17/22 16:27	
Fluoride	mg/L	ND	0.10	0.050	09/17/22 16:27	
Sulfate	mg/L	ND	1.0	0.50	09/17/22 16:27	

LABORATORY CONTROL SAMPLE: 3771605

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.5	103	90-110	
Fluoride	mg/L	2.5	2.5	101	90-110	
Sulfate	mg/L	50	51.9	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3771606 3771607

Parameter	Units	92625657001		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	5.5	50	50	56.7	57.0	102	103	90-110	0	10		
Fluoride	mg/L	0.10	2.5	2.5	2.4	2.4	93	93	90-110	0	10		
Sulfate	mg/L	5.4	50	50	56.6	56.8	103	103	90-110	0	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3771608 3771609

Parameter	Units	92625178005		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	4.9	50	50	56.3	56.5	103	103	90-110	0	10		
Fluoride	mg/L	0.18	2.5	2.5	2.5	2.5	93	93	90-110	0	10		
Sulfate	mg/L	92.1	50	50	143	144	103	103	90-110	0	10		

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### QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Assessment-Revised Report

Pace Project No.: 92625178

QC Batch: 724055 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: 92625178009, 92625178010, 92625178011, 92625178012, 92625178013

METHOD BLANK: 3772745

Matrix: Water

Associated Lab Samples: 92625178009, 92625178010, 92625178011, 92625178012, 92625178013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/19/22 00:00	
Fluoride	mg/L	ND	0.10	0.050	09/19/22 00:00	
Sulfate	mg/L	ND	1.0	0.50	09/19/22 00:00	

LABORATORY CONTROL SAMPLE: 3772746

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.9	100	90-110	
Fluoride	mg/L	2.5	2.6	104	90-110	
Sulfate	mg/L	50	50.9	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3772749 3772750

Parameter	Units	92625178011		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	10.3	50	50	61.5	61.6	102	103	90-110	0	10		
Fluoride	mg/L	0.38	2.5	2.5	3.0	3.0	106	107	90-110	1	10		
Sulfate	mg/L	228	50	50	276	279	97	102	90-110	1	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3772755 3772756

Parameter	Units	92625980001		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	2.6	50	50	53.2	53.2	101	101	90-110	0	10		
Fluoride	mg/L	ND	2.5	2.5	2.6	2.6	101	102	90-110	0	10		
Sulfate	mg/L	5.5	50	50	56.9	56.6	103	102	90-110	0	10		

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### QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Assessment-Revised Report  
Pace Project No.: 92625178

QC Batch:	724437	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: 92625178017, 92625178018, 92625178019, 92625178020, 92625178021, 92625178022, 92625623012, 92625623013, 92625623014

METHOD BLANK: 3774398 Matrix: Water  
Associated Lab Samples: 92625178017, 92625178018, 92625178019, 92625178020, 92625178021, 92625178022, 92625623012, 92625623013, 92625623014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/20/22 18:23	
Fluoride	mg/L	ND	0.10	0.050	09/20/22 18:23	
Sulfate	mg/L	ND	1.0	0.50	09/20/22 18:23	

LABORATORY CONTROL SAMPLE: 3774399

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.4	99	90-110	
Fluoride	mg/L	2.5	2.5	101	90-110	
Sulfate	mg/L	50	50.2	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3774400 3774401

Parameter	Units	92626469002		3774401		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	105	50	50	159	159	108	107	90-110	0	10
Fluoride	mg/L	0.49	2.5	2.5	3.1	3.2	106	107	90-110	1	10
Sulfate	mg/L	31.2	50	50	82.4	82.6	102	103	90-110	0	10

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3774402 3774403

Parameter	Units	92625623020		3774403		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	26.2	50	50	77.4	77.1	102	102	90-110	0	10
Fluoride	mg/L	0.69	2.5	2.5	3.2	3.3	102	104	90-110	1	10
Sulfate	mg/L	462	50	50	509	510	92	95	90-110	0	10

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### QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Assessment-Revised Report  
Pace Project No.: 92625178

QC Batch: 724821 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: 92625178023, 92625178024

METHOD BLANK: 3776265 Matrix: Water  
Associated Lab Samples: 92625178023, 92625178024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/22/22 02:00	
Fluoride	mg/L	ND	0.10	0.050	09/22/22 02:00	
Sulfate	mg/L	ND	1.0	0.50	09/22/22 02:00	

LABORATORY CONTROL SAMPLE: 3776266

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.4	97	90-110	
Fluoride	mg/L	2.5	2.5	102	90-110	
Sulfate	mg/L	50	48.8	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3776267 3776268

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92625186007 Result	Spike Conc.	Spike Conc.	Result								
Chloride	mg/L	369	50	50	418	412	98	87	90-110	1	10	M1	
Fluoride	mg/L	15.4	2.5	2.5	17.5	17.2	81	72	90-110	1	10	M1	
Sulfate	mg/L	72.6	50	50	115	113	85	81	90-110	1	10	M1	

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### QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Assessment-Revised Report  
Pace Project No.: 92625178

QC Batch: 725140 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: 92625178025

METHOD BLANK: 3777923 Matrix: Water  
Associated Lab Samples: 92625178025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/22/22 20:18	
Fluoride	mg/L	ND	0.10	0.050	09/22/22 20:18	
Sulfate	mg/L	ND	1.0	0.50	09/22/22 20:18	

LABORATORY CONTROL SAMPLE: 3777924

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	47.3	95	90-110	
Fluoride	mg/L	2.5	2.4	97	90-110	
Sulfate	mg/L	50	47.6	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3777925 3777926

Parameter	Units	92626959007		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	12.9	50	50	61.1	61.1	96	96	90-110	0	10		
Fluoride	mg/L	0.23	2.5	2.5	2.7	2.7	98	97	90-110	1	10		
Sulfate	mg/L	31.0	50	50	79.4	79.5	97	97	90-110	0	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3777927 3777928

Parameter	Units	92626959011		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	15.2	50	50	63.1	63.7	96	97	90-110	1	10		
Fluoride	mg/L	0.38	2.5	2.5	2.9	2.9	101	102	90-110	1	10		
Sulfate	mg/L	ND	50	50	47.9	48.6	95	96	90-110	1	10		

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## QUALIFIERS

Project: McDonough AP-2-3/4 Assessment-Revised Report

Pace Project No.: 92625178

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### 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-2-3/4 Assessment-Revised Report  
Pace Project No.: 92625178

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92625178003	B-83				
92625178004	B-97				
92625178005	B-98				
92625178006	B-104D				
92625178008	B-77				
92625178009	B-63				
92625178010	B-107D				
92625178011	B-111D				
92625178012	B-115D				
92625623012	B-102D				
92625623013	B-108D				
92625178017	B-56				
92625178018	B-66				
92625178019	B-88				
92625178020	B-101D				
92625178021	B-106D				
92625178022	B-82				
92625178023	B-120D				
92625178025	B-109D				
92625178003	B-83	EPA 3010A	726040	EPA 6010D	726131
92625178004	B-97	EPA 3010A	726040	EPA 6010D	726131
92625178005	B-98	EPA 3010A	726040	EPA 6010D	726131
92625178006	B-104D	EPA 3010A	726040	EPA 6010D	726131
92625178007	DUP-4	EPA 3010A	726040	EPA 6010D	726131
92625178008	B-77	EPA 3010A	726040	EPA 6010D	726131
92625178009	B-63	EPA 3010A	726040	EPA 6010D	726131
92625178010	B-107D	EPA 3010A	726040	EPA 6010D	726131
92625178011	B-111D	EPA 3010A	726040	EPA 6010D	726131
92625178012	B-115D	EPA 3010A	726040	EPA 6010D	726131
92625178013	FB-5	EPA 3010A	726040	EPA 6010D	726131
92625623012	B-102D	EPA 3010A	725787	EPA 6010D	725888
92625623013	B-108D	EPA 3010A	725787	EPA 6010D	725888
92625623014	FB-6	EPA 3010A	725787	EPA 6010D	725888
92625178017	B-56	EPA 3010A	726040	EPA 6010D	726131
92625178018	B-66	EPA 3010A	726415	EPA 6010D	726515
92625178019	B-88	EPA 3010A	726415	EPA 6010D	726515
92625178020	B-101D	EPA 3010A	726415	EPA 6010D	726515
92625178021	B-106D	EPA 3010A	726415	EPA 6010D	726515
92625178022	B-82	EPA 3010A	726415	EPA 6010D	726515
92625178023	B-120D	EPA 3010A	726415	EPA 6010D	726515
92625178024	EB-6	EPA 3010A	726415	EPA 6010D	726515
92625178025	B-109D	EPA 3010A	726415	EPA 6010D	726515
92625178003	B-83	EPA 3005A	725788	EPA 6020B	725909
92625178004	B-97	EPA 3005A	725788	EPA 6020B	725909
92625178005	B-98	EPA 3005A	725788	EPA 6020B	725909
92625178006	B-104D	EPA 3005A	725788	EPA 6020B	725909

**REPORT OF LABORATORY ANALYSIS**

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: McDonough AP-2-3/4 Assessment-Revised Report

Pace Project No.: 92625178

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92625178007	DUP-4	EPA 3005A	725788	EPA 6020B	725909
92625178008	B-77	EPA 3005A	726042	EPA 6020B	726149
92625178009	B-63	EPA 3005A	726042	EPA 6020B	726149
92625178010	B-107D	EPA 3005A	726042	EPA 6020B	726149
92625178011	B-111D	EPA 3005A	726042	EPA 6020B	726149
92625178012	B-115D	EPA 3005A	726202	EPA 6020B	726322
92625178013	FB-5	EPA 3005A	726202	EPA 6020B	726322
92625623012	B-102D	EPA 3005A	725788	EPA 6020B	725909
92625623013	B-108D	EPA 3005A	725788	EPA 6020B	725909
92625623014	FB-6	EPA 3005A	725788	EPA 6020B	725909
92625178017	B-56	EPA 3005A	726202	EPA 6020B	726322
92625178018	B-66	EPA 3005A	726202	EPA 6020B	726322
92625178019	B-88	EPA 3005A	726202	EPA 6020B	726322
92625178020	B-101D	EPA 3005A	726202	EPA 6020B	726322
92625178021	B-106D	EPA 3005A	726202	EPA 6020B	726322
92625178022	B-82	EPA 3005A	726202	EPA 6020B	726322
92625178023	B-120D	EPA 3005A	726202	EPA 6020B	726322
92625178024	EB-6	EPA 3005A	726202	EPA 6020B	726322
92625178025	B-109D	EPA 3005A	726202	EPA 6020B	726322
92625178003	B-83	EPA 7470A	727738	EPA 7470A	727817
92625178004	B-97	EPA 7470A	727738	EPA 7470A	727817
92625178005	B-98	EPA 7470A	727738	EPA 7470A	727817
92625178006	B-104D	EPA 7470A	727738	EPA 7470A	727817
92625178007	DUP-4	EPA 7470A	727738	EPA 7470A	727817
92625178008	B-77	EPA 7470A	727738	EPA 7470A	727817
92625178009	B-63	EPA 7470A	727738	EPA 7470A	727817
92625178010	B-107D	EPA 7470A	727738	EPA 7470A	727817
92625178011	B-111D	EPA 7470A	727738	EPA 7470A	727817
92625178012	B-115D	EPA 7470A	727738	EPA 7470A	727817
92625178013	FB-5	EPA 7470A	727738	EPA 7470A	727817
92625623012	B-102D	EPA 7470A	725890	EPA 7470A	726012
92625623013	B-108D	EPA 7470A	725890	EPA 7470A	726012
92625623014	FB-6	EPA 7470A	725890	EPA 7470A	726012
92625178017	B-56	EPA 7470A	727738	EPA 7470A	727817
92625178018	B-66	EPA 7470A	727738	EPA 7470A	727817
92625178019	B-88	EPA 7470A	727738	EPA 7470A	727817
92625178020	B-101D	EPA 7470A	727738	EPA 7470A	727817
92625178021	B-106D	EPA 7470A	727738	EPA 7470A	727817
92625178022	B-82	EPA 7470A	727738	EPA 7470A	727817
92625178023	B-120D	EPA 7470A	727738	EPA 7470A	727817
92625178024	EB-6	EPA 7470A	727738	EPA 7470A	727817
92625178025	B-109D	EPA 7470A	727738	EPA 7470A	727817
92625178003	B-83	SM 2540C-2015	723649		
92625178004	B-97	SM 2540C-2015	723649		
92625178005	B-98	SM 2540C-2015	723649		

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: McDonough AP-2-3/4 Assessment-Revised Report

Pace Project No.: 92625178

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92625178006	B-104D	SM 2540C-2015	723649		
92625178007	DUP-4	SM 2540C-2015	723649		
92625178008	B-77	SM 2540C-2015	723649		
92625178009	B-63	SM 2540C-2015	724043		
92625178010	B-107D	SM 2540C-2015	724043		
92625178011	B-111D	SM 2540C-2015	724043		
92625178012	B-115D	SM 2540C-2015	724043		
92625178013	FB-5	SM 2540C-2015	724043		
92625623012	B-102D	SM 2540C-2015	724233		
92625623013	B-108D	SM 2540C-2015	724233		
92625623014	FB-6	SM 2540C-2015	724233		
92625178017	B-56	SM 2540C-2015	724233		
92625178018	B-66	SM 2540C-2015	724233		
92625178019	B-88	SM 2540C-2015	724233		
92625178020	B-101D	SM 2540C-2015	724233		
92625178021	B-106D	SM 2540C-2015	724233		
92625178022	B-82	SM 2540C-2015	724233		
92625178003	B-83	SM 2320B-2011	724377		
92625178004	B-97	SM 2320B-2011	724377		
92625178005	B-98	SM 2320B-2011	724377		
92625178006	B-104D	SM 2320B-2011	724377		
92625178007	DUP-4	SM 2320B-2011	724377		
92625178008	B-77	SM 2320B-2011	724377		
92625178009	B-63	SM 2320B-2011	724379		
92625178010	B-107D	SM 2320B-2011	724379		
92625178011	B-111D	SM 2320B-2011	724379		
92625178012	B-115D	SM 2320B-2011	724379		
92625178013	FB-5	SM 2320B-2011	724379		
92625623012	B-102D	SM 2320B-2011	724379		
92625623013	B-108D	SM 2320B-2011	724379		
92625623014	FB-6	SM 2320B-2011	724379		
92625178017	B-56	SM 2320B-2011	724724		
92625178018	B-66	SM 2320B-2011	724724		
92625178019	B-88	SM 2320B-2011	724724		
92625178020	B-101D	SM 2320B-2011	724724		
92625178021	B-106D	SM 2320B-2011	724724		
92625178022	B-82	SM 2320B-2011	724724		
92625178023	B-120D	SM 2320B-2011	724724		
92625178024	EB-6	SM 2320B-2011	724724		
92625178025	B-109D	SM 2320B-2011	725081		
92625178023	B-120D	SM 2540C-2011	725355		
92625178024	EB-6	SM 2540C-2011	725355		
92625178025	B-109D	SM 2540C-2011	725355		
92625178003	B-83	EPA 300.0 Rev 2.1 1993	723824		
92625178004	B-97	EPA 300.0 Rev 2.1 1993	723824		

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: McDonough AP-2-3/4 Assessment-Revised Report  
Pace Project No.: 92625178

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92625178005	B-98	EPA 300.0 Rev 2.1 1993	723824		
92625178006	B-104D	EPA 300.0 Rev 2.1 1993	723824		
92625178007	DUP-4	EPA 300.0 Rev 2.1 1993	723824		
92625178008	B-77	EPA 300.0 Rev 2.1 1993	723824		
92625178009	B-63	EPA 300.0 Rev 2.1 1993	724055		
92625178010	B-107D	EPA 300.0 Rev 2.1 1993	724055		
92625178011	B-111D	EPA 300.0 Rev 2.1 1993	724055		
92625178012	B-115D	EPA 300.0 Rev 2.1 1993	724055		
92625178013	FB-5	EPA 300.0 Rev 2.1 1993	724055		
92625623012	B-102D	EPA 300.0 Rev 2.1 1993	724437		
92625623013	B-108D	EPA 300.0 Rev 2.1 1993	724437		
92625623014	FB-6	EPA 300.0 Rev 2.1 1993	724437		
92625178017	B-56	EPA 300.0 Rev 2.1 1993	724437		
92625178018	B-66	EPA 300.0 Rev 2.1 1993	724437		
92625178019	B-88	EPA 300.0 Rev 2.1 1993	724437		
92625178020	B-101D	EPA 300.0 Rev 2.1 1993	724437		
92625178021	B-106D	EPA 300.0 Rev 2.1 1993	724437		
92625178022	B-82	EPA 300.0 Rev 2.1 1993	724437		
92625178023	B-120D	EPA 300.0 Rev 2.1 1993	724821		
92625178024	EB-6	EPA 300.0 Rev 2.1 1993	724821		
92625178025	B-109D	EPA 300.0 Rev 2.1 1993	725140		

### 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#: **92625178**



Courier:  Commercial  Fed Ex  UPS  USPS  Client  Pace  Other: \_\_\_\_\_

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 9/15/22  
COA

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: 3.8 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): 3.8

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.
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: <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 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:  
North Carolina Quality Office

Project

**WO# : 92625178**

PM: NMG

Due Date: 09/27/22

CLIENT: GA-GA Power

\*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

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	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).





DC#\_Title: ENV-FRM-HUN1-0083 v01\_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  M...

Sample Condition Upon Receipt

Client Name: Georgia Power

Project

WO#: 92625178

PM: NMG

Due Date: 09/27/22

CLIENT: GA-GA Power

Courier:

Commercial

Fed Ex

UPS

USPS

Client

Pace

Other:

Custody Seal Present?

Yes

No

Seals Intact?

Yes

No

Packing Material:

Bubble Wrap

Bubble Bags

None

Other

Thermometer:

IR Gun ID:

230

Type of Ice:

Wet

Blue

None

Cooler Temp:

3.3

Correction Factor:

Add/Subtract (°C)

0.0

Cooler Temp Corrected (°C):

3.3

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

Temp should be above freezing to 6°C

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

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

Date/Initials Person Examining Contents: 9/17/22 JM

Biological Tissue Frozen?

Yes

No

N/A

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	Comments/Discrepancy:
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		
-Includes Date/Time/ID/Analysis Matrix: WG			
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

CLIENT NOTIFICATION/RESOLUTION

Lot ID of split containers:

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

**WO# : 92625178**

PM: NMG

Due Date: 09/27/22

CLIENT: GA-GA Power

\*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

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-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
1	2	1			1																			2					
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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.





DC#\_Title: ENV-FRM-HUN1-0083 v01\_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Meridian

Sample Condition Upon Receipt

Client Name: Georgia 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: 230  Type of Ice:  Wet  Blue  None

Cooler Temp: 33 Correction Factor: 0.0 Add/Subtract (°C)

Cooler Temp Corrected (°C): 33

Date/Initials Person Examining Contents: 9/17/22 JM

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

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:	WG	
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

CLIENT NOTIFICATION/RESOLUTION

Lot ID of split containers:

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 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-)	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 DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers).





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: Georgia 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: 9/17/22 JM

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

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

Biological Tissue Frozen?  Yes  No  N/A

Cooler Temp: 3.3 Correction Factor: 0.0 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): 3.3

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

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



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)	BPIN	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)		
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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.







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: GA Power

Project #:

WO#: 92625178

PM: NMG

Due Date: 09/27/22

CLIENT: GA-GA Power

Courier:  Commercial  Fed Ex  Pace  UPS  USPS  Other:  Client

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 9/20/22 CJR

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: 3.3

Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 3.3

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 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# : 92625178**

PM: NMG

Due Date: 09/27/22

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 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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**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).





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:

Georgia Power

Project #

WO#: 92625178

Courier:

Commercial

Fed Ex

Pace

UPS

USPS

Other:

Client

PM: NMG

Due Date: 09/27/22

CLIENT: GA-GA Power

Custody Seal Present?

Yes

No

Seals Intact?

Yes

No

Date/Initials Person Examining Contents: 9/21/22 HT

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:

3.6

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):

3.6

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.
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 checked="" 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: WCA		
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

**WO# : 92625178**

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

Project #

PM: NMG

Due Date: 09/27/22

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

CLIENT: GA-GA Power

\*\*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)	BP1N	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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**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: JALCOKE@GOSOUTHHERMO.COM  
 Phone: (470) 620-6176 Fax: \_\_\_\_\_  
 Requested Due Date: 10 Day TAT

Section B  
 Required Project Information:

Report To: Lauren Collier  
 Copy To: Collier  
 Purchase Order #: \_\_\_\_\_  
 Project Name: Plant MD AP-2, 3rd Assessment  
 VMI Network  
 Project #: QJ18848022

Section C  
 Invoice Information:

Attention: scattivichera@southhermo.com  
 Company Name: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Price Quote  
 Price Project Manager: Nicole D'Ona  
 Price Profile #: \_\_\_\_\_

Page: 1 of 1

Regulatory Agency: \_\_\_\_\_  
 State / Location: GA

ITEM #	SAMPLE ID	MATRIX	CODE	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	UNPRESERVED - Ice	PRESERVATIVES	ANALYSES TEST		Residual Chlorine (Y/N)	SAMPLE CONDITIONS	
										Y/N	Y/N			
1	B-1090	One Character per box. (A-Z, 0-9, /, -) Sample IDs must be unique	WG	9/20/2022	14:33	6	3	3		X	X	X	X	X
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														

ADDITIONAL COMMENTS: \_\_\_\_\_

RELINQUISHED BY: \_\_\_\_\_ DATE: 9/21/22 TIME: 15:05

ACCEPTED BY: \_\_\_\_\_ DATE: 9/21/22 TIME: 15:05

TEMP in C: \_\_\_\_\_

Received on Ice (Y/N): \_\_\_\_\_

Custody Sealed Cooler (Y/N): \_\_\_\_\_

Samples Intact (Y/N): \_\_\_\_\_

025  
 9/25

November 04, 2022

Andrea McClure  
WSP/Golder  
5170 Peachtree Road  
Building 100, Suite 300  
Atlanta, GA 30341

RE: Project: McDonough AP-2-3/4 Assess Rads-Revised Report  
Pace Project No.: 92625631

Dear Andrea McClure:

Enclosed are the analytical results for sample(s) received by the laboratory between September 14, 2022 and September 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

Revision 1: Issued on 11/4/22 to include Radium QC Sheets.

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: Joju Abraham, Georgia Power-CCR  
Stephen Benda, Southern Company  
Noelia Gangi, Georgia Power  
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.  
Michael Smilley, Georgia Power  
Yong Cheng Soo, WSP/Golder  
Tina Sullivan, ERM



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: McDonough AP-2-3/4 Assess Rads-Revised Report  
Pace Project No.: 92625631

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### **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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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: McDonough AP-2-3/4 Assess Rads-Revised Report

Pace Project No.: 92625631

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92625631001	B-83	Water	09/13/22 11:43	09/14/22 09:53
92625631002	B-97	Water	09/13/22 12:26	09/14/22 09:53
92625631003	B-98	Water	09/13/22 11:58	09/14/22 09:53
92625631004	B-104D	Water	09/13/22 13:55	09/14/22 09:53
92625631005	DUP-4	Water	09/13/22 00:00	09/14/22 09:53
92625631006	B-77	Water	09/13/22 14:21	09/14/22 09:53
92625631007	B-63	Water	09/14/22 12:56	09/15/22 08:20
92625631008	B-107D	Water	09/14/22 10:15	09/15/22 08:20
92625631009	B-111D	Water	09/14/22 15:11	09/15/22 08:20
92625631010	B-115D	Water	09/14/22 15:26	09/15/22 08:20
92625631011	FB-5	Water	09/14/22 12:20	09/15/22 08:20
92625631012	B-56	Water	09/16/22 10:13	09/16/22 16:30
92625631013	B-66	Water	09/16/22 10:10	09/16/22 16:30
92625631014	B-88	Water	09/16/22 10:44	09/16/22 16:30
92625631015	B-101D	Water	09/16/22 11:30	09/16/22 16:30
92625631016	B-106D	Water	09/16/22 09:16	09/16/22 16:30
92625631017	B-82	Water	09/16/22 12:15	09/16/22 16:30
92625631018	B-102D	Water	09/15/22 12:00	09/16/22 16:30
92625631019	B-108D	Water	09/15/22 14:05	09/16/22 16:30
92625631020	FB-6	Water	09/15/22 14:05	09/16/22 16:30
92625631021	B-120D	Water	09/19/22 14:55	09/20/22 09:50
92625631022	EB-6	Water	09/19/22 15:30	09/20/22 09:50
92625631023	B-109D	Water	09/20/22 14:33	09/21/22 15:05

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: McDonough AP-2-3/4 Assess Rads-Revised Report  
Pace Project No.: 92625631

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92625631001	B-83	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625631002	B-97	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625631003	B-98	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625631004	B-104D	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625631005	DUP-4	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625631006	B-77	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625631007	B-63	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625631008	B-107D	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625631009	B-111D	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625631010	B-115D	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625631011	FB-5	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625631012	B-56	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625631013	B-66	EPA 9315	RMS	1	PASI-PA

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: McDonough AP-2-3/4 Assess Rads-Revised Report  
Pace Project No.: 92625631

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92625631014	B-88	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
92625631015	B-101D	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
92625631016	B-106D	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
92625631017	B-82	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
92625631018	B-102D	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
92625631019	B-108D	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
92625631020	FB-6	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
92625631021	B-120D	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
92625631022	EB-6	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
92625631023	B-109D	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	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-Revised Report

Pace Project No.: 92625631

**Sample: B-83**      **Lab ID: 92625631001**      Collected: 09/13/22 11:43      Received: 09/14/22 09:53      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	<b>0.0339 ± 0.0726 (0.171)</b> <b>C:88% T:NA</b>	pCi/L	10/12/22 20:07	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.859 ± 0.460 (0.817)</b> <b>C:61% T:88%</b>	pCi/L	10/11/22 11:38	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.893 ± 0.533 (0.988)</b>	pCi/L	10/14/22 17:45	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Assess Rads-Revised Report

Pace Project No.: 92625631

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: B-97</b> <b>Lab ID: 92625631002</b> Collected: 09/13/22 12:26      Received: 09/14/22 09:53      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.440 ± 0.188 (0.228)</b> <b>C:92% T:NA</b>	pCi/L	10/12/22 20:06	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.670 ± 0.414 (0.775)</b> <b>C:66% T:90%</b>	pCi/L	10/11/22 11:38	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.11 ± 0.602 (1.00)</b>	pCi/L	10/14/22 17:45	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Assess Rads-Revised Report

Pace Project No.: 92625631

**Sample: B-98**      **Lab ID: 92625631003**      Collected: 09/13/22 11:58      Received: 09/14/22 09:53      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	<b>0.599 ± 0.205 (0.169)</b> <b>C:96% T:NA</b>	pCi/L	10/13/22 08:44	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>1.43 ± 0.540 (0.812)</b> <b>C:67% T:85%</b>	pCi/L	10/11/22 11:38	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>2.03 ± 0.745 (0.981)</b>	pCi/L	10/14/22 17:45	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Assess Rads-Revised Report

Pace Project No.: 92625631

**Sample: B-104D**      **Lab ID: 92625631004**      Collected: 09/13/22 13:55      Received: 09/14/22 09:53      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	<b>3.01 ± 0.592 (0.182)</b> <b>C:93% T:NA</b>	pCi/L	10/13/22 08:44	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>6.11 ± 1.34 (0.838)</b> <b>C:62% T:91%</b>	pCi/L	10/11/22 11:38	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>9.12 ± 1.93 (1.02)</b>	pCi/L	10/14/22 17:45	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Assess Rads-Revised Report

Pace Project No.: 92625631

**Sample: DUP-4**      **Lab ID: 92625631005**      Collected: 09/13/22 00:00      Received: 09/14/22 09:53      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	<b>0.130 ± 0.104 (0.174)</b> <b>C:94% T:NA</b>	pCi/L	10/13/22 08:44	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.698 ± 0.412 (0.760)</b> <b>C:70% T:88%</b>	pCi/L	10/11/22 11:38	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.828 ± 0.516 (0.934)</b>	pCi/L	10/14/22 17:45	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Assess Rads-Revised Report

Pace Project No.: 92625631

**Sample: B-77**      **Lab ID: 92625631006**      Collected: 09/13/22 14:21      Received: 09/14/22 09:53      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	<b>0.295 ± 0.152 (0.205)</b> <b>C:94% T:NA</b>	pCi/L	10/13/22 08:44	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.812 ± 0.455 (0.827)</b> <b>C:74% T:83%</b>	pCi/L	10/11/22 14:44	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.11 ± 0.607 (1.03)</b>	pCi/L	10/14/22 17:45	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Assess Rads-Revised Report

Pace Project No.: 92625631

**Sample: B-63**      **Lab ID: 92625631007**      Collected: 09/14/22 12:56      Received: 09/15/22 08:20      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	<b>0.639 ± 0.253 (0.286)</b> <b>C:94% T:NA</b>	pCi/L	10/13/22 08:44	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.966 ± 0.503 (0.872)</b> <b>C:71% T:89%</b>	pCi/L	10/11/22 14:45	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.61 ± 0.756 (1.16)</b>	pCi/L	10/14/22 17:45	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Assess Rads-Revised Report

Pace Project No.: 92625631

**Sample: B-107D**      **Lab ID: 92625631008**      Collected: 09/14/22 10:15      Received: 09/15/22 08:20      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	<b>0.195 ± 0.120 (0.172)</b> <b>C:96% T:NA</b>	pCi/L	10/13/22 08:44	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.542 ± 0.429 (0.850)</b> <b>C:73% T:81%</b>	pCi/L	10/11/22 14:45	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.737 ± 0.549 (1.02)</b>	pCi/L	10/14/22 17:45	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Assess Rads-Revised Report

Pace Project No.: 92625631

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: B-111D</b> <b>Lab ID: 92625631009</b> Collected: 09/14/22 15:11      Received: 09/15/22 08:20      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>2.79 ± 0.561 (0.197)</b> <b>C:93% T:NA</b>	pCi/L	10/13/22 08:44	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>3.44 ± 1.04 (1.34)</b> <b>C:72% T:84%</b>	pCi/L	10/11/22 19:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>6.23 ± 1.60 (1.54)</b>	pCi/L	10/14/22 17:45	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Assess Rads-Revised Report

Pace Project No.: 92625631

**Sample: B-115D**      **Lab ID: 92625631010**      Collected: 09/14/22 15:26      Received: 09/15/22 08:20      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	<b>3.83 ± 0.728 (0.276)</b> <b>C:93% T:NA</b>	pCi/L	10/13/22 08:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>9.50 ± 2.03 (1.12)</b> <b>C:72% T:87%</b>	pCi/L	10/11/22 19:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>13.3 ± 2.76 (1.40)</b>	pCi/L	10/14/22 17:45	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Assess Rads-Revised Report

Pace Project No.: 92625631

**Sample: FB-5**      **Lab ID: 92625631011**      Collected: 09/14/22 12:20      Received: 09/15/22 08:20      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	<b>-0.0218 ± 0.0489 (0.184)</b> <b>C:93% T:NA</b>	pCi/L	10/12/22 20:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>1.13 ± 0.598 (1.06)</b> <b>C:73% T:89%</b>	pCi/L	10/11/22 19:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.13 ± 0.647 (1.24)</b>	pCi/L	10/14/22 17:45	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Assess Rads-Revised Report

Pace Project No.: 92625631

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: B-56</b> <b>Lab ID: 92625631012</b> Collected: 09/16/22 10:13      Received: 09/16/22 16:30      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.227 ± 0.121 (0.160)</b> <b>C:97% T:NA</b>	pCi/L	10/07/22 09:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.525 ± 0.438 (0.882)</b> <b>C:69% T:88%</b>	pCi/L	10/04/22 15:42	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.752 ± 0.559 (1.04)</b>	pCi/L	10/07/22 15:37	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Assess Rads-Revised Report

Pace Project No.: 92625631

**Sample: B-66**      **Lab ID: 92625631013**      Collected: 09/16/22 10:10      Received: 09/16/22 16:30      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	<b>0.120 ± 0.103 (0.188)</b> <b>C:92% T:NA</b>	pCi/L	10/07/22 09:37	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.712 ± 0.403 (0.726)</b> <b>C:80% T:79%</b>	pCi/L	10/04/22 15:42	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.832 ± 0.506 (0.914)</b>	pCi/L	10/07/22 15:37	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Assess Rads-Revised Report  
Pace Project No.: 92625631

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: B-88</b> <b>Lab ID: 92625631014</b> Collected: 09/16/22 10:44      Received: 09/16/22 16:30      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.424 ± 0.171 (0.193)</b> <b>C:96% T:NA</b>	pCi/L	10/07/22 09:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.827 ± 0.428 (0.772)</b> <b>C:80% T:93%</b>	pCi/L	10/04/22 15:42	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.25 ± 0.599 (0.965)</b>	pCi/L	10/07/22 15:37	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Assess Rads-Revised Report

Pace Project No.: 92625631

**Sample: B-101D**      **Lab ID: 92625631015**      Collected: 09/16/22 11:30      Received: 09/16/22 16:30      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	<b>0.335 ± 0.146 (0.146)</b> <b>C:87% T:NA</b>	pCi/L	10/07/22 09:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>1.30 ± 0.505 (0.782)</b> <b>C:80% T:82%</b>	pCi/L	10/04/22 15:42	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.64 ± 0.651 (0.928)</b>	pCi/L	10/07/22 15:37	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Assess Rads-Revised Report

Pace Project No.: 92625631

**Sample: B-106D**      **Lab ID: 92625631016**      Collected: 09/16/22 09:16      Received: 09/16/22 16:30      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	<b>0.227 ± 0.131 (0.193)</b> <b>C:88% T:NA</b>	pCi/L	10/07/22 09:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.428 ± 0.386 (0.786)</b> <b>C:77% T:84%</b>	pCi/L	10/04/22 15:43	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.655 ± 0.517 (0.979)</b>	pCi/L	10/07/22 15:37	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Assess Rads-Revised Report

Pace Project No.: 92625631

**Sample: B-82**      **Lab ID: 92625631017**      Collected: 09/16/22 12:15      Received: 09/16/22 16:30      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	<b>0.146 ± 0.118 (0.216)</b> <b>C:93% T:NA</b>	pCi/L	10/07/22 09:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.548 ± 0.401 (0.783)</b> <b>C:75% T:84%</b>	pCi/L	10/04/22 15:43	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.694 ± 0.519 (0.999)</b>	pCi/L	10/07/22 15:37	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Assess Rads-Revised Report

Pace Project No.: 92625631

**Sample: B-102D**      **Lab ID: 92625631018**      Collected: 09/15/22 12:00      Received: 09/16/22 16:30      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	<b>0.210 ± 0.131 (0.209)</b> <b>C:92% T:NA</b>	pCi/L	10/07/22 09:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.400 ± 0.410 (0.852)</b> <b>C:77% T:86%</b>	pCi/L	10/04/22 15:43	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.610 ± 0.541 (1.06)</b>	pCi/L	10/07/22 15:37	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Assess Rads-Revised Report  
Pace Project No.: 92625631

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: B-108D</b> <b>Lab ID: 92625631019</b> Collected: 09/15/22 14:05      Received: 09/16/22 16:30      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.243 ± 0.132 (0.192)</b> <b>C:95% T:NA</b>	pCi/L	10/07/22 09:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>1.12 ± 0.507 (0.857)</b> <b>C:74% T:85%</b>	pCi/L	10/04/22 15:43	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.36 ± 0.639 (1.05)</b>	pCi/L	10/07/22 15:37	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Assess Rads-Revised Report

Pace Project No.: 92625631

**Sample: FB-6**      **Lab ID: 92625631020**      Collected: 09/15/22 14:05      Received: 09/16/22 16:30      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	<b>0.0329 ± 0.0652 (0.151)</b> <b>C:97% T:NA</b>	pCi/L	10/07/22 09:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.309 ± 0.408 (0.872)</b> <b>C:73% T:88%</b>	pCi/L	10/04/22 15:43	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.342 ± 0.473 (1.02)</b>	pCi/L	10/07/22 15:37	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Assess Rads-Revised Report  
Pace Project No.: 92625631

**Sample: B-120D**      **Lab ID: 92625631021**      Collected: 09/19/22 14:55      Received: 09/20/22 09:50      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	<b>0.706 ± 0.223 (0.206)</b> <b>C:97% T:NA</b>	pCi/L	10/11/22 09:18	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>1.51 ± 0.502 (0.662)</b> <b>C:75% T:89%</b>	pCi/L	10/04/22 12:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>2.22 ± 0.725 (0.868)</b>	pCi/L	10/11/22 14:52	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Assess Rads-Revised Report

Pace Project No.: 92625631

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: EB-6</b> <b>Lab ID: 92625631022</b> Collected: 09/19/22 15:30      Received: 09/20/22 09:50      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>-0.00726 ± 0.0709 (0.197)</b> <b>C:96% T:NA</b>	pCi/L	10/11/22 09:18	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.310 ± 0.295 (0.602)</b> <b>C:79% T:92%</b>	pCi/L	10/04/22 12:28	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.310 ± 0.366 (0.799)</b>	pCi/L	10/11/22 14:52	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Assess Rads-Revised Report

Pace Project No.: 92625631

**Sample: B-109D**      **Lab ID: 92625631023**      Collected: 09/20/22 14:33      Received: 09/21/22 15:05      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	<b>7.66 ± 1.26 (0.163)</b> <b>C:94% T:NA</b>	pCi/L	10/11/22 09:25	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>8.81 ± 1.80 (1.00)</b> <b>C:79% T:90%</b>	pCi/L	10/04/22 12:33	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>16.5 ± 3.06 (1.16)</b>	pCi/L	10/11/22 14:52	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Assess Rads-Revised Report

Pace Project No.: 92625631

QC Batch: 535740

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92625631021, 92625631022, 92625631023

METHOD BLANK: 2599417

Matrix: Water

Associated Lab Samples: 92625631021, 92625631022, 92625631023

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0657 ± 0.105 (0.234) C:98% T:NA	pCi/L	10/11/22 09:17	

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.

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Assess Rads-Revised Report

Pace Project No.: 92625631

QC Batch: 535739

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92625631021, 92625631022, 92625631023

METHOD BLANK: 2599416

Matrix: Water

Associated Lab Samples: 92625631021, 92625631022, 92625631023

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.0371 ± 0.270 (0.626) C:74% T:89%	pCi/L	10/04/22 12:22	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Assess Rads-Revised Report

Pace Project No.: 92625631

QC Batch: 537265

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92625631011

METHOD BLANK: 2606799

Matrix: Water

Associated Lab Samples: 92625631011

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.226 ± 0.138 (0.196) C:96% T:NA	pCi/L	10/12/22 19:59	

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## QUALIFIERS

Project: McDonough AP-2-3/4 Assess Rads-Revised Report

Pace Project No.: 92625631

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### 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-Revised Report  
Pace Project No.: 92625631

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92625631001	B-83	EPA 9315	536956		
92625631002	B-97	EPA 9315	536956		
92625631003	B-98	EPA 9315	536956		
92625631004	B-104D	EPA 9315	536956		
92625631005	DUP-4	EPA 9315	536956		
92625631006	B-77	EPA 9315	536956		
92625631007	B-63	EPA 9315	536956		
92625631008	B-107D	EPA 9315	536956		
92625631009	B-111D	EPA 9315	536956		
92625631010	B-115D	EPA 9315	536956		
92625631011	FB-5	EPA 9315	537265		
92625631012	B-56	EPA 9315	534681		
92625631013	B-66	EPA 9315	534681		
92625631014	B-88	EPA 9315	534681		
92625631015	B-101D	EPA 9315	534681		
92625631016	B-106D	EPA 9315	534681		
92625631017	B-82	EPA 9315	534681		
92625631018	B-102D	EPA 9315	534681		
92625631019	B-108D	EPA 9315	534681		
92625631020	FB-6	EPA 9315	534681		
92625631021	B-120D	EPA 9315	535740		
92625631022	EB-6	EPA 9315	535740		
92625631023	B-109D	EPA 9315	535740		
92625631001	B-83	EPA 9320	536957		
92625631002	B-97	EPA 9320	536957		
92625631003	B-98	EPA 9320	536957		
92625631004	B-104D	EPA 9320	536957		
92625631005	DUP-4	EPA 9320	536957		
92625631006	B-77	EPA 9320	536957		
92625631007	B-63	EPA 9320	536957		
92625631008	B-107D	EPA 9320	536957		
92625631009	B-111D	EPA 9320	536957		
92625631010	B-115D	EPA 9320	536957		
92625631011	FB-5	EPA 9320	536957		
92625631012	B-56	EPA 9320	534679		
92625631013	B-66	EPA 9320	534679		
92625631014	B-88	EPA 9320	534679		
92625631015	B-101D	EPA 9320	534679		
92625631016	B-106D	EPA 9320	534679		
92625631017	B-82	EPA 9320	534679		
92625631018	B-102D	EPA 9320	534679		
92625631019	B-108D	EPA 9320	534679		
92625631020	FB-6	EPA 9320	534679		
92625631021	B-120D	EPA 9320	535739		
92625631022	EB-6	EPA 9320	535739		
92625631023	B-109D	EPA 9320	535739		

### 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 CROSS REFERENCE TABLE

Project: McDonough AP-2-3/4 Assess Rads-Revised Report  
Pace Project No.: 92625631

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92625631001	B-83	Total Radium Calculation	540023		
92625631002	B-97	Total Radium Calculation	540023		
92625631003	B-98	Total Radium Calculation	540023		
92625631004	B-104D	Total Radium Calculation	540023		
92625631005	DUP-4	Total Radium Calculation	540023		
92625631006	B-77	Total Radium Calculation	540023		
92625631007	B-63	Total Radium Calculation	540023		
92625631008	B-107D	Total Radium Calculation	540023		
92625631009	B-111D	Total Radium Calculation	540023		
92625631010	B-115D	Total Radium Calculation	540023		
92625631011	FB-5	Total Radium Calculation	540023		
92625631012	B-56	Total Radium Calculation	538367		
92625631013	B-66	Total Radium Calculation	538367		
92625631014	B-88	Total Radium Calculation	538367		
92625631015	B-101D	Total Radium Calculation	538367		
92625631016	B-106D	Total Radium Calculation	538367		
92625631017	B-82	Total Radium Calculation	538367		
92625631018	B-102D	Total Radium Calculation	538367		
92625631019	B-108D	Total Radium Calculation	538367		
92625631020	FB-6	Total Radium Calculation	538367		
92625631021	B-120D	Total Radium Calculation	538980		
92625631022	EB-6	Total Radium Calculation	538980		
92625631023	B-109D	Total Radium Calculation	538980		

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.



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: GA Power

Project #:

WO#: 92625631



92625631

Courier:  Commercial  Fed Ex  UPS  USPS  Client  Pace  Other:

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 9/14/22 JDR

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: 3.2 Correction Factor: 0.0 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.
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>WW</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

CLIENT NOTIFICATION/RESOLUTION

Lot ID of split containers:

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 #

**W0# : 92625631**

PM: NMG

Due Date: 10/05/22

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 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)	AG9U-100 mL Amber Unpreserved (N/A) (Cl-)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
1		2	1			2	1																	2	1				
2		2	1			2	1																	2	1				
3		2	1			2	1																	2	1				
4		2	1			2	1																	2	1				
5		2	1			2	1																	2	1				
6		2	1			2	1																	2	1				
7																								4					
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9																													
10																													
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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 DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.



**Laboratory receiving samples:**

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Sample Condition Upon Receipt

Client Name: GA Power

Project #

**WO# : 92625631**

PM: NMG Due Date: 10/05/22  
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: 9/15/22  
COB

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: 3.8 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): 3.8

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.
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 type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required?  Yes  No

CLIENT NOTIFICATION/RESOLUTION

Lot ID of split containers:

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.

Project

**WO# : 92625631**

PM: NMG Due Date: 10/05/22  
 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

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 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)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)			
1		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 DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.





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: Georgia 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:

230

Type of Ice:  Wet  Blue  None

Cooler Temp: 5.3 Correction Factor: Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 3.3

Date/Initials Person Examining Contents: 9/17/22 JM

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

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

Chain of Custody Present?	Yes	No	N/A	1.	Comments/Discrepancy:
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"/>	7.	
Containers Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8.	
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	9.	
Sample Labels Match COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
-Includes Date/Time/ID/Analysis Matrix: WG					
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

CLIENT NOTIFICATION/RESOLUTION

Lot ID of split containers:

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/BO15 (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)	SPST-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																											
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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.





DC#\_Title: ENV-FRM-HUN1-0083 v01\_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mer...

WO#: 92625631

PM: NMG Due Date: 10/05/22  
CLIENT: GA-GA Power

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

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

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

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

Cooler Temp Corrected (°C): 3.3

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

Date/Initials Person Examining Contents: 9/17/22 JM

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

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: WG		
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

Project

WO#: 92625631

PM: NMG

Due Date: 10/05/22

CLIENT: GA-GA Power

\*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

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)	DG9A-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-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)			
1		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.







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: GA Power

Project: WO#: 92625631

PM: NMG Due Date: 10/05/22
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: 9/20/22 CJA

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

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

Cooler Temp Corrected (°C): 3.3

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

Table with 2 columns: Chain of Custody Present?, Samples Arrived within Hold Time?, Short Hold Time Analysis (<72 hr.)?, Rush Turn Around Time Requested?, Sufficient Volume?, Correct Containers Used?, Containers Intact?, Dissolved analysis: Samples Field Filtered?, Sample Labels Match COC?, Headspace in VOA Vials (>5-6mm)?, Trip Blank Present?, Trip Blank Custody Seals Present? and Comments/Discrepancy: 1-11

COMMENTS/SAMPLE DISCREPANCY Field Data Required? Yes No

CLIENT NOTIFICATION/RESOLUTION Lot ID of split containers:

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# : 92625631**

PM: NMG

Due Date: 10/05/22

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 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-)	VSGU-20 mL Scintillation vials (N/A)	DG9U 40 mL Amber Unpreserved vials (N/A)		
1		2	1			1																		2					
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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).





DC#\_Title: ENV-FRM-HUN1-0083 v01\_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mecklenburg

WO#: 92625631

PM: NMG Due Date: 10/05/22  
CLIENT: GA-GA Power

Sample Condition  
Upon Receipt

Client Name:

Georgia Power

Project #:

Courier:  Fed Ex  UPS  USPS  Client  
 Commercial  Pace  Other:

Date/Initials Person Examining Contents: 9/2/22 JF

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

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: 3.6 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): 3.6

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.
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 checked="" 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: WCG	
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

CLIENT NOTIFICATION/RESOLUTION

Lot ID of split containers:

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#: 92625631

PM: NMG

Due Date: 10/05/22

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 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-)	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 DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.



## Quality Control Sample Performance Assessment



Test: Ra-226  
Analyst: RMS  
Date: 9/26/2022  
Worklist: 68985  
Matrix: DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment		
MB Sample ID	2594503	
MB concentration:	0.042	
M/B Counting Uncertainty:	0.070	
MB MDC:	0.157	
MB Numerical Performance Indicator:	1.18	
MB Status vs Numerical Indicator:	N/A	
MB Status vs. MDC:	Pass	

Laboratory Control Sample Assessment	LCSD (Y or N)?	
	LCS68985	LCSD68985
Count Date:	10/7/2022	10/7/2022
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.023	24.023
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.505	0.501
Target Conc. (pCi/L, g, F):	4.756	4.792
Uncertainty (Calculated):	0.057	0.058
Result (pCi/L, g, F):	5.097	4.847
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.493	0.496
Numerical Performance Indicator:	1.35	0.22
Percent Recovery:	107.17%	101.15%
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.:	LCS68985	2594503
Duplicate Sample I.D.:	LCSD68985	92625631020
Sample Result (pCi/L, g, F):	5.097	0.042
Sample Result Counting Uncertainty (pCi/L, g, F):	0.493	0.070
Sample Duplicate Result (pCi/L, g, F):	4.847	0.033
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.496	0.065
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	0.702	0.192
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	5.78%	25.02%
Duplicate Status vs Numerical Indicator:	N/A	N/A
Duplicate Status vs RPD:	Pass	Fail***
% 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:		
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:		

## 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~~ N/A

LAM 10/7/22

LAM 10/7/22

## Quality Control Sample Performance Assessment



Test: Ra-226  
Analyst: RMS  
Date: 9/29/2022  
Worklist: 69056  
Matrix: DW

*Analyst Must Manually Enter All Fields Highlighted in Yellow.*

Method Blank Assessment		
MB Sample ID		2599417
MB concentration:		0.066
M/B Counting Uncertainty:		0.104
MB MDC:		0.234
MB Numerical Performance Indicator:		1.23
MB Status vs Numerical Indicator:		N/A
MB Status vs. MDC:		Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS69056	LCS69056
Count Date:	10/11/2022	10/11/2022
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.023	24.023
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.503	0.503
Target Conc. (pCi/L, g, F):	4.772	4.776
Uncertainty (Calculated):	0.057	0.057
Result (pCi/L, g, F):	4.561	5.048
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.462	0.491
Numerical Performance Indicator:	-0.89	1.08
Percent Recovery:	95.59%	105.68%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

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:		
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:		

Duplicate Sample Assessment		
Sample I.D.:	LCS69056	
Duplicate Sample I.D.:	LCS69056	
Sample Result (pCi/L, g, F):	4.561	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.462	
Sample Duplicate Result (pCi/L, g, F):	5.048	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.491	
Are sample and/or duplicate results below RL?:	NO	
Duplicate Numerical Performance Indicator:	-1.414	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	10.03%	
Duplicate Status vs Numerical Indicator:	N/A	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	25%	

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:		

## Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

*Amid*

UAM10/11/22



## Quality Control Sample Performance Assessment



Test: Ra-226  
Analyst: RMS  
Date: 10/5/2022  
Worklist: 69144  
Matrix: DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment		
MB Sample ID	2605313	
MB concentration:	-0.001	
M/B Counting Uncertainty:	0.049	
MB MDC:	0.149	
MB Numerical Performance Indicator:	-0.03	
MB Status vs Numerical Indicator:	N/A	
MB Status vs. MDC:	Pass	

Laboratory Control Sample Assessment	LCSD (Y or N)?	
	LCS69144	LCSD69144
Count Date:	10/13/2022	10/13/2022
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.023	24.023
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.506	0.504
Target Conc. (pCi/L, g, F):	4.746	4.770
Uncertainty (Calculated):	0.057	0.057
Result (pCi/L, g, F):	4.962	5.296
LCSD/LCSD Counting Uncertainty (pCi/L, g, F):	0.512	0.551
Numerical Performance Indicator:	0.82	1.86
Percent Recovery:	104.55%	111.03%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

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:		
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:		

Duplicate Sample Assessment	LCS69144	2605313
Sample I.D.:	LCS69144	2605313
Duplicate Sample I.D.:	LCSD69144	92625212004
Sample Result (pCi/L, g, F):	4.962	-0.001
Sample Result Counting Uncertainty (pCi/L, g, F):	0.512	0.049
Sample Duplicate Result (pCi/L, g, F):	5.296	0.005
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.551	0.072
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	-0.870	-0.127
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	6.01%	282.60%
Duplicate Status vs Numerical Indicator:	N/A	N/A
Duplicate Status vs RPD:	Pass	Fail***
% RPD Limit:	25%	25%

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:		

## 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.~~ N/A

VAM 10/13/22  
VAM  
10/13/22

VAM 10/13/22

## Quality Control Sample Performance Assessment



Test: Ra-228  
Analyst: VAL  
Date: 9/26/2022  
Worklist: 68983  
Matrix: WT

*Analyst Must Manually Enter All Fields Highlighted in Yellow.*

Method Blank Assessment		
MB Sample ID	2594500	
MB concentration:	-0.343	
M/B 2 Sigma CSU:	0.266	
MB MDC:	0.703	
MB Numerical Performance Indicator:	-2.52	
MB Status vs Numerical Indicator:	Warning	
MB Statue vs. MDC:	Pass	

Laboratory Control Sample Assessment	LCS/D (Y or N)?	
	LCS68983	LCS/D68983
Count Date:	10/4/2022	10/4/2022
Spike I.D.:	22-029	22-029
Decay Corrected Spike Concentration (pCi/mL):	19.873	19.873
Volume Used (mL):	0.20	0.20
Aliquot Volume (L, g, F):	0.802	0.810
Target Conc. (pCi/L, g, F):	4.956	4.909
Uncertainty (Calculated):	0.357	0.353
Result (pCi/L, g, F):	3.835	3.327
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.896	0.797
Numerical Performance Indicator:	-2.28	-3.56
Percent Recovery:	77.37%	67.77%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	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 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:		

Duplicate Sample Assessment		
Sample I.D.:	LCS68983	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.:	LCS/D68983	
Sample Result (pCi/L, g, F):	3.835	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.896	
Sample Duplicate Result (pCi/L, g, F):	3.327	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.797	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.830	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	13.22%	
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.:		
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:*  
11/10/2022  
10:54 AM  
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## Quality Control Sample Performance Assessment



Test: Ra-228  
Analyst: VAL  
Date: 9/28/2022  
Worklist: 69055  
Matrix: WT

*Analyst Must Manually Enter All Fields Highlighted in Yellow.*

Method Blank Assessment		
MB Sample ID	2599416	
MB concentration:	0.037	
M/B 2 Sigma CSU:	0.270	
MB MDC:	0.626	
MB Numerical Performance Indicator:	0.27	
MB Status vs Numerical Indicator:	Pass	
MB Status vs. MDC:	Pass	

Laboratory Control Sample Assessment	LCS/D (Y or N)?	Y
	LCS69055	LCS69055
Count Date:	10/4/2022	10/4/2022
Spike I.D.:	22-029	22-029
Decay Corrected Spike Concentration (pCi/mL):	19.874	19.874
Volume Used (mL):	0.20	0.20
Aliquot Volume (L, g, F):	0.806	0.805
Target Conc. (pCi/L, g, F):	4.933	4.940
Uncertainty (Calculated):	0.355	0.356
Result (pCi/L, g, F):	4.189	4.442
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.917	0.977
Numerical Performance Indicator:	-1.48	-0.94
Percent Recovery:	84.92%	89.91%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	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 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:		

Duplicate Sample Assessment		
Sample I.D.:	LCS69055	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.:	LCS69055	
Sample Result (pCi/L, g, F):	4.189	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.917	
Sample Duplicate Result (pCi/L, g, F):	4.442	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.977	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-0.370	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	5.70%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	35%	

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 signature and initials: J. Val, 9/28/2022*



## Quality Control Sample Performance Assessment

Test: Ra-226  
Analyst: RMS  
Date: 10/7/2022  
Worklist: 69179  
Matrix: DW

**Analyst Must Manually Enter All Fields Highlighted in Yellow.**

Method Blank Assessment	
MB Sample ID	2606799
MB concentration:	0.226
M/B Counting Uncertainty:	0.134
MB MDC:	0.196
MB Numerical Performance Indicator:	3.29
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	See Comment*

Laboratory Control Sample Assessment	LCSD (Y or N)?	
	LCSD69179	LCSD69179
Count Date:	10/12/2022	10/12/2022
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.023	24.023
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.503	0.503
Target Conc. (pCi/L, g, F):	4.771	4.773
Uncertainty (Calculated):	0.057	0.057
Result (pCi/L, g, F):	4.303	5.044
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.532	0.573
Numerical Performance Indicator:	-1.72	0.92
Percent Recovery:	90.18%	105.67%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

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:		
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:		

Duplicate Sample Assessment		
Sample I.D.:	LCS69179	
Duplicate Sample I.D.:	LCSD69179	
Sample Result (pCi/L, g, F):	4.303	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.532	
Sample Duplicate Result (pCi/L, g, F):	5.044	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.573	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-1.857	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	15.81%	
Duplicate Status vs Numerical Indicator:	N/A	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	25%	

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:		

## 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.

## Quality Control Sample Performance Assessment



Test: Ra-228  
Analyst: VAL  
Date: 10/5/2022  
Worklist: 69145  
Matrix: VIT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment		
MB Sample ID	2605316	
MB concentration:	0.660	
M/B 2 Sigma CSU:	0.393	
MB MDC:	0.716	
MB Numerical Performance Indicator:	3.29	
MB Status vs Numerical Indicator:	Fail*	
MB Status vs. MDC:	Pass	

Laboratory Control Sample Assessment	LCSD (Y or N)?	
	LCS69145	LCS69145
Count Date:	10/11/2022	10/11/2022
Spike I.D.:	22-029	22-029
Decay Corrected Spike Concentration (pCi/mL):	19.827	19.827
Volume Used (mL):	0.20	0.20
Aliquot Volume (L, g, F):	0.807	0.806
Target Conc. (pCi/L, g, F):	4.914	4.922
Uncertainty (Calculated):	0.354	0.354
Result (pCi/L, g, F):	4.634	4.396
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.047	0.980
Numerical Performance Indicator:	-0.50	-0.99
Percent Recovery:	94.32%	89.31%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	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 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:		

Duplicate Sample Assessment	LCS69145	LCS69145
Sample I.D.:	LCS69145	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.:	LCS69145	
Sample Result (pCi/L, g, F):	4.634	
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.047	
Sample Duplicate Result (pCi/L, g, F):	4.396	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.980	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.326	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	5.45%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	MS/MSD 1	MS/MSD 2
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:

\*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.

2.10

*MB activity < MDC, Pass*  
*10/12/22*

10/12/22  
 VAL  
 Page 63 of 63

October 04, 2022

Andrea McClure  
WSP/Golder  
5170 Peachtree Road  
Building 100, Suite 300  
Atlanta, GA 30341

RE: Project: McDonough AP-2-3/4 Assess Piez  
Pace Project No.: 92628215

Dear Andrea McClure:

Enclosed are the analytical results for sample(s) received by the laboratory on September 13, 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: Joju Abraham, Georgia Power-CCR  
Stephen Benda, Southern Company  
Noelia Gangi, Georgia Power  
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.  
Michael Smilley, Georgia Power  
Yong Cheng Soo, WSP/Golder  
Tina Sullivan, ERM



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: McDonough AP-2-3/4 Assess Piez  
Pace Project No.: 92628215

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### **Pace Analytical Services Charlotte**

South Carolina Laboratory ID: 99006	South Carolina Certification #: 99006001
9800 Kinsey Ave. Ste 100, Huntersville, NC 28078	South Carolina Drinking Water Cert. #: 99006003
North Carolina Drinking Water Certification #: 37706	Florida/NELAP Certification #: E87627
North Carolina Field Services Certification #: 5342	Kentucky UST Certification #: 84
North Carolina Wastewater Certification #: 12	Louisiana DoH Drinking Water #: LA029
South Carolina Laboratory ID: 99006	Virginia/VELAP Certification #: 460221

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### **Pace Analytical Services Asheville**

2225 Riverside Drive, Asheville, NC 28804	South Carolina Laboratory ID: 99030
Florida/NELAP Certification #: E87648	South Carolina Certification #: 99030001
North Carolina Drinking Water Certification #: 37712	Virginia/VELAP Certification #: 460222
North Carolina Wastewater Certification #: 40	

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### **Pace Analytical Services Peachtree Corners**

110 Technology Pkwy, Peachtree Corners, GA 30092	North Carolina Certification #: 381
Florida DOH Certification #: E87315	South Carolina Certification #: 98011001
Georgia DW Inorganics Certification #: 812	

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: McDonough AP-2-3/4 Assess Piez

Pace Project No.: 92628215

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Lab ID	Sample ID	Matrix	Date Collected	Date Received
92625178001	B-92	Water	09/12/22 11:45	09/13/22 10:36
92625178002	B-93	Water	09/12/22 13:05	09/13/22 10:36

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: McDonough AP-2-3/4 Assess Piez  
Pace Project No.: 92628215

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92625178001	B-92	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92625178002	B-93	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		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 Assess Piez  
Pace Project No.: 92628215

Sample: B-92		Lab ID: 92625178001		Collected: 09/12/22 11:45		Received: 09/13/22 10:36		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		09/13/22 13:44		
pH	<b>4.56</b>	Std. Units			1		09/13/22 13:44		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	<b>0.036J</b>	mg/L	0.040	0.025	1	09/27/22 11:19	09/27/22 14:46	7439-89-6	
Potassium	<b>5.7</b>	mg/L	0.20	0.15	1	09/27/22 11:19	09/27/22 14:46	7440-09-7	
Sodium	<b>18.4</b>	mg/L	1.0	0.58	1	09/27/22 11:19	09/27/22 14:46	7440-23-5	
Calcium	<b>104</b>	mg/L	1.0	0.12	1	09/27/22 11:19	09/27/22 14:46	7440-70-2	M1
Magnesium	<b>17.4</b>	mg/L	0.050	0.012	1	09/27/22 11:19	09/27/22 14:46	7439-95-4	M1
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/26/22 13:33	09/27/22 18:33	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/26/22 13:33	09/27/22 18:33	7440-38-2	
Barium	<b>0.017</b>	mg/L	0.0050	0.00067	1	09/26/22 13:33	09/27/22 18:33	7440-39-3	
Beryllium	<b>0.017</b>	mg/L	0.00050	0.000054	1	09/26/22 13:33	09/27/22 18:33	7440-41-7	
Boron	<b>2.9</b>	mg/L	0.40	0.086	10	09/26/22 13:33	09/28/22 14:53	7440-42-8	
Cadmium	<b>0.0014</b>	mg/L	0.00050	0.00011	1	09/26/22 13:33	09/27/22 18:33	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/26/22 13:33	09/27/22 18:33	7440-47-3	
Cobalt	<b>0.073</b>	mg/L	0.0050	0.00039	1	09/26/22 13:33	09/27/22 18:33	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/26/22 13:33	09/27/22 18:33	7439-92-1	
Lithium	<b>0.015J</b>	mg/L	0.030	0.00073	1	09/26/22 13:33	09/27/22 18:33	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/26/22 13:33	09/27/22 18:33	7439-98-7	
Selenium	<b>0.012</b>	mg/L	0.0050	0.0014	1	09/26/22 13:33	09/27/22 18:33	7782-49-2	
Thallium	<b>0.00020J</b>	mg/L	0.0010	0.00018	1	09/26/22 13:33	09/27/22 18:33	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	<b>0.00015J</b>	mg/L	0.00020	0.00013	1	10/03/22 11:30	10/03/22 13:38	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>696</b>	mg/L	50.0	20.0	1		09/14/22 11:37		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	5.0	1		09/14/22 18:16		
Alkalinity, Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	5.0	1		09/14/22 18:16		
Alkalinity, Total as CaCO <sub>3</sub>	ND	mg/L	5.0	5.0	1		09/14/22 18:16		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>10.2</b>	mg/L	1.0	0.60	1		09/15/22 18:56	16887-00-6	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assess Piez

Pace Project No.: 92628215

**Sample: B-92**      **Lab ID: 92625178001**      Collected: 09/12/22 11:45      Received: 09/13/22 10:36      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	<b>0.24</b>	mg/L	0.10	0.050	1		09/15/22 18:56	16984-48-8	
Sulfate	<b>394</b>	mg/L	8.0	4.0	8		09/16/22 04:11	14808-79-8	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assess Piez  
Pace Project No.: 92628215

Sample: B-93		Lab ID: 92625178002		Collected: 09/12/22 13:05		Received: 09/13/22 10:36		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		09/13/22 13:44		
pH	<b>4.70</b>	Std. Units			1		09/13/22 13:44		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	ND	mg/L	0.040	0.025	1	09/27/22 11:19	09/27/22 15:06	7439-89-6	
Potassium	<b>6.5</b>	mg/L	0.20	0.15	1	09/27/22 11:19	09/27/22 15:06	7440-09-7	
Sodium	<b>24.5</b>	mg/L	1.0	0.58	1	09/27/22 11:19	09/27/22 15:06	7440-23-5	
Calcium	<b>133</b>	mg/L	1.0	0.12	1	09/27/22 11:19	09/27/22 15:06	7440-70-2	
Magnesium	<b>22.4</b>	mg/L	0.050	0.012	1	09/27/22 11:19	09/27/22 15:06	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	<b>0.00096J</b>	mg/L	0.0030	0.00078	1	09/26/22 13:33	09/27/22 18:57	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/26/22 13:33	09/27/22 18:57	7440-38-2	
Barium	<b>0.015</b>	mg/L	0.0050	0.00067	1	09/26/22 13:33	09/27/22 18:57	7440-39-3	
Beryllium	<b>0.017</b>	mg/L	0.00050	0.000054	1	09/26/22 13:33	09/27/22 18:57	7440-41-7	
Boron	<b>3.6</b>	mg/L	0.20	0.043	5	09/26/22 13:33	09/28/22 14:59	7440-42-8	
Cadmium	<b>0.00084</b>	mg/L	0.00050	0.00011	1	09/26/22 13:33	09/27/22 18:57	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/26/22 13:33	09/27/22 18:57	7440-47-3	
Cobalt	<b>0.057</b>	mg/L	0.0050	0.00039	1	09/26/22 13:33	09/27/22 18:57	7440-48-4	
Lead	ND	mg/L	0.0050	0.0044	5	09/26/22 13:33	09/28/22 14:59	7439-92-1	D3
Lithium	<b>0.013J</b>	mg/L	0.030	0.00073	1	09/26/22 13:33	09/27/22 18:57	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/26/22 13:33	09/27/22 18:57	7439-98-7	
Selenium	<b>0.013</b>	mg/L	0.0050	0.0014	1	09/26/22 13:33	09/27/22 18:57	7782-49-2	
Thallium	ND	mg/L	0.0050	0.00090	5	09/26/22 13:33	09/28/22 14:59	7440-28-0	D3
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	<b>0.00016J</b>	mg/L	0.00020	0.00013	1	10/03/22 11:30	10/03/22 13:40	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>884</b>	mg/L	50.0	20.0	1		09/14/22 11:37		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/16/22 16:54		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/16/22 16:54		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/16/22 16:54		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>15.0</b>	mg/L	1.0	0.60	1		09/15/22 19:11	16887-00-6	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assess Piez

Pace Project No.: 92628215

**Sample: B-93**      **Lab ID: 92625178002**      Collected: 09/12/22 13:05      Received: 09/13/22 10:36      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	<b>0.40</b>	mg/L	0.10	0.050	1		09/15/22 19:11	16984-48-8	M1
Sulfate	<b>508</b>	mg/L	11.0	5.5	11		09/16/22 04:26	14808-79-8	M1

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### QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Assess Piez

Pace Project No.: 92628215

QC Batch: 726040

Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A

Analysis Description: 6010D ATL

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92625178001, 92625178002

METHOD BLANK: 3781867

Matrix: Water

Associated Lab Samples: 92625178001, 92625178002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/27/22 14:37	
Iron	mg/L	ND	0.040	0.025	09/27/22 14:37	
Magnesium	mg/L	ND	0.050	0.012	09/27/22 14:37	
Potassium	mg/L	ND	0.20	0.15	09/27/22 14:37	
Sodium	mg/L	ND	1.0	0.58	09/27/22 14:37	

LABORATORY CONTROL SAMPLE: 3781868

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	103	80-120	
Iron	mg/L	1	1.1	106	80-120	
Magnesium	mg/L	1	1.1	107	80-120	
Potassium	mg/L	1	1.1	109	80-120	
Sodium	mg/L	1	1.0	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3781869 3781870

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92625178001 Result	Spike Conc.	Spike Conc.	Result						
Calcium	mg/L	104	1	1	105	103	64	-98	75-125	2	20 M1
Iron	mg/L	0.036J	1	1	1.0	0.96	97	93	75-125	4	20
Magnesium	mg/L	17.4	1	1	18.3	17.8	95	44	75-125	3	20 M1
Potassium	mg/L	5.7	1	1	6.7	6.7	96	94	75-125	0	20
Sodium	mg/L	18.4	1	1	19.4	19.1	97	76	75-125	1	20

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### QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Assess Piez  
Pace Project No.: 92628215

QC Batch: 725788 Analysis Method: EPA 6020B  
QC Batch Method: EPA 3005A Analysis Description: 6020 MET  
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92625178001, 92625178002

METHOD BLANK: 3780835 Matrix: Water  
Associated Lab Samples: 92625178001, 92625178002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/27/22 18:21	
Arsenic	mg/L	ND	0.0050	0.0022	09/27/22 18:21	
Barium	mg/L	ND	0.0050	0.00067	09/27/22 18:21	
Beryllium	mg/L	ND	0.00050	0.000054	09/27/22 18:21	
Boron	mg/L	ND	0.040	0.0086	09/27/22 18:21	
Cadmium	mg/L	ND	0.00050	0.00011	09/27/22 18:21	
Chromium	mg/L	ND	0.0050	0.0011	09/27/22 18:21	
Cobalt	mg/L	ND	0.0050	0.00039	09/27/22 18:21	
Lead	mg/L	ND	0.0010	0.00089	09/27/22 18:21	
Lithium	mg/L	ND	0.030	0.00073	09/27/22 18:21	
Molybdenum	mg/L	ND	0.010	0.00074	09/27/22 18:21	
Selenium	mg/L	ND	0.0050	0.0014	09/27/22 18:21	
Thallium	mg/L	ND	0.0010	0.00018	09/27/22 18:21	

LABORATORY CONTROL SAMPLE: 3780836

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	107	80-120	
Arsenic	mg/L	0.1	0.097	97	80-120	
Barium	mg/L	0.1	0.098	98	80-120	
Beryllium	mg/L	0.1	0.10	101	80-120	
Boron	mg/L	1	1.0	104	80-120	
Cadmium	mg/L	0.1	0.097	97	80-120	
Chromium	mg/L	0.1	0.099	99	80-120	
Cobalt	mg/L	0.1	0.096	96	80-120	
Lead	mg/L	0.1	0.099	99	80-120	
Lithium	mg/L	0.1	0.11	108	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	0.099	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3780837 3780838

Parameter	Units	92625178001 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	0.11	104	106	75-125	2	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.099	99	98	75-125	1	20	

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### QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Assess Piez  
Pace Project No.: 92628215

Parameter	Units	3780837		3780838		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		92625178001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Barium	mg/L	0.017	0.1	0.1	0.11	0.11	94	95	75-125	0	20		
Beryllium	mg/L	0.017	0.1	0.1	0.11	0.11	94	92	75-125	2	20		
Boron	mg/L	2.9	1	1	3.7	3.7	80	81	75-125	0	20		
Cadmium	mg/L	0.0014	0.1	0.1	0.10	0.098	98	97	75-125	1	20		
Chromium	mg/L	ND	0.1	0.1	0.092	0.093	91	92	75-125	1	20		
Cobalt	mg/L	0.073	0.1	0.1	0.16	0.16	91	91	75-125	0	20		
Lead	mg/L	ND	0.1	0.1	0.087	0.087	87	87	75-125	0	20		
Lithium	mg/L	0.015J	0.1	0.1	0.12	0.12	102	102	75-125	1	20		
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	101	99	75-125	2	20		
Selenium	mg/L	0.012	0.1	0.1	0.11	0.11	96	96	75-125	0	20		
Thallium	mg/L	0.00020J	0.1	0.1	0.088	0.088	88	88	75-125	0	20		

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### QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Assess Piez  
Pace Project No.: 92628215

QC Batch: 727398	Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A	Analysis Description: 7470 Mercury
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92625178001, 92625178002

METHOD BLANK: 3787972 Matrix: Water

Associated Lab Samples: 92625178001, 92625178002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	10/03/22 13:17	

LABORATORY CONTROL SAMPLE: 3787973

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: 3787974 3787975

Parameter	Units	3787974		3787975		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	0.00016J	0.0025	0.0022	0.0022	82	81	75-125	1	20	

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### QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Assess Piez  
Pace Project No.: 92628215

QC Batch: 722886	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: 92625178001, 92625178002

METHOD BLANK: 3766455 Matrix: Water

Associated Lab Samples: 92625178001, 92625178002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	10.0	09/14/22 11:30	

LABORATORY CONTROL SAMPLE: 3766456

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	384	96	80-120	

SAMPLE DUPLICATE: 3766458

Parameter	Units	92624840004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	620000 ug/L	680	9	10	

SAMPLE DUPLICATE: 3767354

Parameter	Units	92624372007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	252	297	16	10	R1

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### QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Assess Piez  
Pace Project No.: 92628215

QC Batch: 723206 Analysis Method: SM 2320B-2011  
QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity  
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92625178001

METHOD BLANK: 3768028 Matrix: Water  
Associated Lab Samples: 92625178001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	09/14/22 14:56	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	09/14/22 14:56	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	09/14/22 14:56	

LABORATORY CONTROL SAMPLE: 3768029

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.2	100	80-120	

LABORATORY CONTROL SAMPLE: 3768030

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.8	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3768031 3768032

Parameter	Units	92625359004		3768031		3768032		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					MS % Rec
Alkalinity, Total as CaCO3	mg/L	324	324	50	50	353	349	58	51	80-120	1	25 M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3768033 3768034

Parameter	Units	92624372011		3768033		3768034		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					MS % Rec
Alkalinity, Total as CaCO3	mg/L	134	134	50	50	193	185	118	102	80-120	4	25

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### QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Assess Piez  
Pace Project No.: 92628215

QC Batch: 723613 Analysis Method: SM 2320B-2011  
QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity  
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92625178002

METHOD BLANK: 3770309 Matrix: Water  
Associated Lab Samples: 92625178002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	09/16/22 13:22	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	09/16/22 13:22	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	09/16/22 13:22	

LABORATORY CONTROL SAMPLE: 3770310

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.1	104	80-120	

LABORATORY CONTROL SAMPLE: 3770311

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: 3770314 3770315

Parameter	Units	92625683004		3770314		3770315		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					MS % Rec
Alkalinity, Total as CaCO3	mg/L	190	190	50	50	247	262	114	144	80-120	6	25 M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3771994 3771995

Parameter	Units	92625683003		3771994		3771995		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					MS % Rec
Alkalinity, Total as CaCO3	mg/L	ND	ND	50	50	54.9	54.9	104	103	80-120	0	25

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### QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Assess Piez  
Pace Project No.: 92628215

QC Batch: 723467 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: 92625178001, 92625178002

METHOD BLANK: 3769521 Matrix: Water  
Associated Lab Samples: 92625178001, 92625178002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/15/22 15:11	
Fluoride	mg/L	ND	0.10	0.050	09/15/22 15:11	
Sulfate	mg/L	ND	1.0	0.50	09/15/22 15:11	

LABORATORY CONTROL SAMPLE: 3769522

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.0	98	90-110	
Fluoride	mg/L	2.5	2.5	100	90-110	
Sulfate	mg/L	50	49.3	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3769523 3769524

Parameter	Units	92625147002		MS		MSD		% Rec	% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec								
Chloride	mg/L	94.2	50	50	133	134	77	79	90-110	1	10	M1			
Fluoride	mg/L	0.49	2.5	2.5	3.0	3.0	101	102	90-110	1	10				
Sulfate	mg/L	53.6	50	50	99.3	100	91	93	90-110	1	10				

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3769525 3769526

Parameter	Units	92625178002		MS		MSD		% Rec	% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec								
Chloride	mg/L	15.0	50	50	66.7	67.1	103	104	90-110	1	10				
Fluoride	mg/L	0.40	2.5	2.5	3.6	3.6	127	128	90-110	1	10	M1			
Sulfate	mg/L	508	50	50	552	552	88	89	90-110	0	10	M1			

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## QUALIFIERS

Project: McDonough AP-2-3/4 Assess Piez

Pace Project No.: 92628215

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### 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 Assess Piez  
Pace Project No.: 92628215

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92625178001	B-92				
92625178002	B-93				
92625178001	B-92	EPA 3010A	726040	EPA 6010D	726131
92625178002	B-93	EPA 3010A	726040	EPA 6010D	726131
92625178001	B-92	EPA 3005A	725788	EPA 6020B	725909
92625178002	B-93	EPA 3005A	725788	EPA 6020B	725909
92625178001	B-92	EPA 7470A	727398	EPA 7470A	727474
92625178002	B-93	EPA 7470A	727398	EPA 7470A	727474
92625178001	B-92	SM 2540C-2015	722886		
92625178002	B-93	SM 2540C-2015	722886		
92625178001	B-92	SM 2320B-2011	723206		
92625178002	B-93	SM 2320B-2011	723613		
92625178001	B-92	EPA 300.0 Rev 2.1 1993	723467		
92625178002	B-93	EPA 300.0 Rev 2.1 1993	723467		

### 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:

Georgia Power

Project #

WO#: 92628215



Courier:  Fed-Ex  UPS  USPS  Client  Commercial  Pace  Other: \_\_\_\_\_

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 09/13/22

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?  Yes  No  N/A JM

Thermometer:

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

Cooler Temp: 1.9 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): 1.9

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.	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: WLG			
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

**WO#: 92628215**

Project

PM: NMG

Due Date: 09/27/22

CLIENT: GA-GA Power

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

Exceptions: VOA, Coliform, TQC, 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 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)	BPIN	BP3B-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																															
4																															
5																															
6																															
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 DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.



November 04, 2022

Andrea McClure  
WSP/Golder  
5170 Peachtree Road  
Building 100, Suite 300  
Atlanta, GA 30341

RE: Project: McDonough AP-2, 3/4 Piezo Rads-Revised Report  
Pace Project No.: 92625219

Dear Andrea McClure:

Enclosed are the analytical results for sample(s) received by the laboratory on September 13, 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

Revision 1: Issued on 11/4/22 to include Radium QC Sheets.

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: Joju Abraham, Georgia Power-CCR  
Stephen Benda, Southern Company  
Noelia Gangi, Georgia Power  
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.  
Michael Smilley, Georgia Power  
Yong Cheng Soo, WSP/Golder  
Tina Sullivan, ERM



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: McDonough AP-2, 3/4 Piezo Rads-Revised Report  
Pace Project No.: 92625219

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### **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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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: McDonough AP-2, 3/4 Piezo Rads-Revised Report  
Pace Project No.: 92625219

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Lab ID	Sample ID	Matrix	Date Collected	Date Received
92625219001	B-92	Water	09/12/22 11:45	09/13/22 10:30
92625219002	B-93	Water	09/12/22 13:05	09/13/22 10:30

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: McDonough AP-2, 3/4 Piezo Rads-Revised Report

Pace Project No.: 92625219

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92625219001	B-92	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625219002	B-93	EPA 9315	RMS	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 Piezo Rads-Revised Report

Pace Project No.: 92625219

**Sample: B-92**      **Lab ID: 92625219001**      Collected: 09/12/22 11:45      Received: 09/13/22 10:30      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	<b>0.454 ± 0.168 (0.148)</b> <b>C:96% T:NA</b>	pCi/L	10/12/22 20:08	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>1.89 ± 0.638 (0.881)</b> <b>C:73% T:80%</b>	pCi/L	10/10/22 15:44	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>2.34 ± 0.806 (1.03)</b>	pCi/L	10/14/22 17:44	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2, 3/4 Piezo Rads-Revised Report

Pace Project No.: 92625219

**Sample: B-93**      **Lab ID: 92625219002**      Collected: 09/12/22 13:05      Received: 09/13/22 10:30      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	<b>0.262 ± 0.124 (0.123)</b> <b>C:97% T:NA</b>	pCi/L	10/12/22 20:08	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.824 ± 0.412 (0.702)</b> <b>C:74% T:84%</b>	pCi/L	10/10/22 15:45	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.09 ± 0.536 (0.825)</b>	pCi/L	10/14/22 17:44	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: McDonough AP-2, 3/4 Piezo Rads-Revised Report

Pace Project No.: 92625219

QC Batch: 535922

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92625219001, 92625219002

METHOD BLANK: 2600355

Matrix: Water

Associated Lab Samples: 92625219001, 92625219002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0438 ± 0.0695 (0.152) C:94% T:NA	pCi/L	10/12/22 20:23	

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 Piezo Rads-Revised Report

Pace Project No.: 92625219

QC Batch:	535924	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92625219001, 92625219002

METHOD BLANK: 2600360 Matrix: Water

Associated Lab Samples: 92625219001, 92625219002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.590 ± 0.382 (0.710) C:71% T:92%	pCi/L	10/10/22 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: McDonough AP-2, 3/4 Piezo Rads-Revised Report  
Pace Project No.: 92625219

---

### 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 Piezo Rads-Revised Report  
Pace Project No.: 92625219

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92625219001	B-92	EPA 9315	535922		
92625219002	B-93	EPA 9315	535922		
92625219001	B-92	EPA 9320	535924		
92625219002	B-93	EPA 9320	535924		
92625219001	B-92	Total Radium Calculation	540022		
92625219002	B-93	Total Radium Calculation	540022		

**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: Georgia Power

WO#: 92625219  
Barcode: 92625219

Courier:  Fed Ex  UPS  USPS  Client  
 Commercial  Pace  Other: \_\_\_\_\_

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 09/13/22 JM

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: 1.9 Correction Factor: 0.0 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): 1.9

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. 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: W6	
Headspace in VOA Vials (>5-Gmm)? <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

WO#: 92625219

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

Project

PM: NMG

Due Date: 10/04/22

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

\*\*\*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 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	2	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 DENR 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-228  
Analyst: VAL  
Date: 9/30/2022  
Worklist: 69073  
Matrix: WT

**Method Blank Assessment**

MB Sample ID: 2800360  
 MB concentration: 0.590  
 MB 2 Sigma CSU: 0.382  
 MB MDC: 0.710  
 MB Numerical Performance Indicator: 3.02  
 MB Status vs Numerical Indicator: Fail\*  
 MB Status vs. MDC: Pass

**Laboratory Control Sample Assessment**

Count Date:	LCS#	Y or N?
10/10/2022	LCS69073	Y
22-029	LCS69073	Y
19.834	19.834	
0.20	0.20	
0.810	0.810	
4.907	4.895	
0.353	0.352	
6.528	6.766	
1.362	1.419	
2.23	2.51	
133.05%	138.22%	
N/A	Warning	
Pass	Fail High**	
135%	135%	
50%	60%	

**Duplicate Sample Assessment**

Sample I.D.: LCS69073  
 Duplicate Sample I.D.: LCS69073  
 Sample Result (pCi/L, g, F): 6.528  
 Sample Result 2 Sigma CSU (pCi/L, g, F): 1.382  
 Sample Duplicate Result (pCi/L, g, F): 6.766  
 Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F): 1.419  
 Are sample and/or duplicate results below RL? NO  
 Duplicate Numerical Performance Indicator: -0.235  
 Duplicate Status vs Numerical Indicator: 3.81%  
 Duplicate Status vs Numerical Indicator: Pass  
 Duplicate Status vs RPD: Pass  
 % RPD Limit: 35%

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:  
 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:**

If the lowest activity sample in the batch is greater than ten times the blank value, MB activity is acceptable, otherwise this batch must be reprocessed. *Quintana*

*MB activity < MDC, Pass*

*NI < 3 acceptable for L10/MSD*

*Quintana*

*Two*

*10.11.22*

November 10, 2022

Andrea McClure  
WSP/Golder  
5170 Peachtree Road  
Building 100, Suite 300  
Atlanta, GA 30341

RE: Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report  
Pace Project No.: 92625189

Dear Andrea McClure:

Enclosed are the analytical results for sample(s) received by the laboratory between September 13, 2022 and September 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

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: Joju Abraham, Georgia Power-CCR  
Stephen Benda, Southern Company  
Noelia Gangi, Georgia Power  
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.  
Michael Smilley, Georgia Power  
Yong Cheng Soo, WSP/Golder  
Tina Sullivan, ERM



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report

Pace Project No.: 92625189

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### **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

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### **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

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### **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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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report  
Pace Project No.: 92625189

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92625189001	B-90	Water	09/12/22 12:15	09/13/22 10:30
92625189002	B-91	Water	09/12/22 13:26	09/13/22 10:30
92625189003	B-95	Water	09/12/22 14:38	09/13/22 10:30
92625189004	B-99	Water	09/12/22 10:25	09/13/22 10:30
92625189005	B-119D	Water	09/12/22 10:37	09/13/22 10:30
92625189006	Dup-3	Water	09/12/22 00:00	09/13/22 10:30
92625189007	B-96	Water	09/13/22 11:33	09/14/22 09:53
92625189008	B-122D	Water	09/14/22 10:33	09/15/22 08:20
92625189009	EB-4	Water	09/14/22 11:23	09/15/22 08:20
92625189010	B-117D	Water	09/15/22 10:36	09/16/22 16:30
92625189011	B-123D	Water	09/20/22 15:25	09/21/22 15:05

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report  
Pace Project No.: 92625189

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92625189001	B-90	EPA 6020B	CW1	1
92625189002	B-91	EPA 6020B	CW1	1
92625189003	B-95	EPA 6020B	CW1	1
92625189004	B-99	EPA 6020B	CW1	1
92625189005	B-119D	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92625189006	Dup-3	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92625189007	B-96	EPA 6020B	CW1	1
92625189008	B-122D	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92625189009	EB-4	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92625189010	B-117D	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92625189011	B-123D	EPA 6010D	DRB	5
		EPA 6020B	CW1	13

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### SAMPLE ANALYTE COUNT

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report  
Pace Project No.: 92625189

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2011	MAB2	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-1, 2, 3/4 Supplem-Revised Report

Pace Project No.: 92625189

Sample: B-90		Lab ID: 92625189001		Collected: 09/12/22 12:15	Received: 09/13/22 10:30	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		09/13/22 13:55		
pH	<b>5.35</b>	Std. Units			1		09/13/22 13:55		
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Boron	<b>2.6</b>	mg/L	0.040	0.0086	1	09/27/22 18:00	09/28/22 23:37	7440-42-8	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report

Pace Project No.: 92625189

**Sample: B-91**      **Lab ID: 92625189002**      Collected: 09/12/22 13:26      Received: 09/13/22 10:30      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	<b>Customer</b>				1		09/13/22 13:55		
pH	<b>5.28</b>	Std. Units			1		09/13/22 13:55		

**6020 MET ICPMS**

Analytical Method: EPA 6020B      Preparation Method: EPA 3005A  
Pace Analytical Services - Peachtree Corners, GA

Boron	<b>2.9</b>	mg/L	0.040	0.0086	1	09/27/22 18:00	09/29/22 00:01	7440-42-8	
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### ANALYTICAL RESULTS

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report

Pace Project No.: 92625189

Sample: B-95		Lab ID: 92625189003		Collected: 09/12/22 14:38	Received: 09/13/22 10:30	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		09/13/22 13:55		
pH	<b>5.33</b>	Std. Units			1		09/13/22 13:55		
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Boron	<b>1.5</b>	mg/L	0.040	0.0086	1	09/27/22 18:00	09/29/22 00:07	7440-42-8	

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### ANALYTICAL RESULTS

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report

Pace Project No.: 92625189

Sample: B-99		Lab ID: 92625189004		Collected: 09/12/22 10:25		Received: 09/13/22 10:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		09/13/22 13:56		
pH	<b>5.71</b>	Std. Units			1		09/13/22 13:56		
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Boron	<b>2.2</b>	mg/L	0.040	0.0086	1	09/27/22 18:00	09/29/22 00:13	7440-42-8	

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## ANALYTICAL RESULTS

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report  
Pace Project No.: 92625189

Sample: B-119D		Lab ID: 92625189005		Collected: 09/12/22 10:37		Received: 09/13/22 10:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		09/13/22 13:56		
pH	<b>6.57</b>	Std. Units			1		09/13/22 13:56		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	<b>1.5</b>	mg/L	0.040	0.025	1	09/28/22 12:36	09/28/22 16:10	7439-89-6	
Potassium	<b>2.0</b>	mg/L	0.20	0.15	1	09/28/22 12:36	09/28/22 16:10	7440-09-7	
Sodium	<b>10.2</b>	mg/L	1.0	0.58	1	09/28/22 12:36	09/28/22 16:10	7440-23-5	M1
Calcium	<b>10.4</b>	mg/L	1.0	0.12	1	09/28/22 12:36	09/28/22 16:10	7440-70-2	M1
Magnesium	<b>3.2</b>	mg/L	0.050	0.012	1	09/28/22 12:36	09/28/22 16:10	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	<b>0.0015J</b>	mg/L	0.0030	0.00078	1	09/27/22 18:00	09/29/22 00:19	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/27/22 18:00	09/29/22 00:19	7440-38-2	
Barium	<b>0.0029J</b>	mg/L	0.0050	0.00067	1	09/27/22 18:00	09/29/22 00:19	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/27/22 18:00	09/29/22 00:19	7440-41-7	
Boron	<b>0.048</b>	mg/L	0.040	0.0086	1	09/27/22 18:00	09/29/22 00:19	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/27/22 18:00	09/29/22 00:19	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/27/22 18:00	09/29/22 00:19	7440-47-3	
Cobalt	<b>0.0031J</b>	mg/L	0.0050	0.00039	1	09/27/22 18:00	09/29/22 00:19	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/27/22 18:00	09/29/22 00:19	7439-92-1	
Lithium	<b>0.0045J</b>	mg/L	0.030	0.00073	1	09/27/22 18:00	09/29/22 00:19	7439-93-2	
Molybdenum	<b>0.015</b>	mg/L	0.010	0.00074	1	09/27/22 18:00	09/29/22 00:19	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/27/22 18:00	09/29/22 00:19	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/27/22 18:00	09/29/22 00:19	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	10/03/22 11:30	10/03/22 13:22	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>87.0</b>	mg/L	25.0	10.0	1		09/15/22 11:46		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	<b>60.6</b>	mg/L	5.0	5.0	1		09/16/22 17:12		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/16/22 17:12		
Alkalinity, Total as CaCO3	<b>60.6</b>	mg/L	5.0	5.0	1		09/16/22 17:12		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>1.8</b>	mg/L	1.0	0.60	1		09/15/22 21:46	16887-00-6	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report

Pace Project No.: 92625189

**Sample: B-119D**      **Lab ID: 92625189005**      Collected: 09/12/22 10:37      Received: 09/13/22 10:30      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	<b>0.084J</b>	mg/L	0.10	0.050	1		09/15/22 21:46	16984-48-8	
Sulfate	<b>2.8</b>	mg/L	1.0	0.50	1		09/15/22 21:46	14808-79-8	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report  
Pace Project No.: 92625189

Sample: Dup-3		Lab ID: 92625189006		Collected: 09/12/22 00:00		Received: 09/13/22 10:30		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
<b>6010D ATL ICP</b>		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	1.6	mg/L	0.040	0.025	1	09/28/22 12:36	09/28/22 16:41	7439-89-6		
Potassium	2.1	mg/L	0.20	0.15	1	09/28/22 12:36	09/28/22 16:41	7440-09-7		
Sodium	10.9	mg/L	1.0	0.58	1	09/28/22 12:36	09/28/22 16:41	7440-23-5		
Calcium	11.2	mg/L	1.0	0.12	1	09/28/22 12:36	09/28/22 16:41	7440-70-2		
Magnesium	3.5	mg/L	0.050	0.012	1	09/28/22 12:36	09/28/22 16:41	7439-95-4		
<b>6020 MET ICPMS</b>		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	0.0014J	mg/L	0.0030	0.00078	1	09/27/22 18:00	09/29/22 00:37	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.0022	1	09/27/22 18:00	09/29/22 00:37	7440-38-2		
Barium	0.0028J	mg/L	0.0050	0.00067	1	09/27/22 18:00	09/29/22 00:37	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000054	1	09/27/22 18:00	09/29/22 00:37	7440-41-7		
Boron	0.023J	mg/L	0.040	0.0086	1	09/27/22 18:00	09/29/22 00:37	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00011	1	09/27/22 18:00	09/29/22 00:37	7440-43-9		
Chromium	ND	mg/L	0.0050	0.0011	1	09/27/22 18:00	09/29/22 00:37	7440-47-3		
Cobalt	0.0030J	mg/L	0.0050	0.00039	1	09/27/22 18:00	09/29/22 00:37	7440-48-4		
Lead	ND	mg/L	0.0010	0.00089	1	09/27/22 18:00	09/29/22 00:37	7439-92-1		
Lithium	0.0045J	mg/L	0.030	0.00073	1	09/27/22 18:00	09/29/22 00:37	7439-93-2		
Molybdenum	0.015	mg/L	0.010	0.00074	1	09/27/22 18:00	09/29/22 00:37	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0014	1	09/27/22 18:00	09/29/22 00:37	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00018	1	09/27/22 18:00	09/29/22 00:37	7440-28-0		
<b>7470 Mercury</b>		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	10/03/22 11:30	10/03/22 13:25	7439-97-6		
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	94.0	mg/L	25.0	10.0	1		09/15/22 11:46			
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	61.4	mg/L	5.0	5.0	1		09/16/22 17:19			
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/16/22 17:19			
Alkalinity, Total as CaCO3	61.4	mg/L	5.0	5.0	1		09/16/22 17:19			
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	1.9	mg/L	1.0	0.60	1		09/15/22 22:01	16887-00-6		
Fluoride	0.085J	mg/L	0.10	0.050	1		09/15/22 22:01	16984-48-8		
Sulfate	2.9	mg/L	1.0	0.50	1		09/15/22 22:01	14808-79-8		

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## ANALYTICAL RESULTS

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report

Pace Project No.: 92625189

Sample: B-96		Lab ID: 92625189007		Collected: 09/13/22 11:33		Received: 09/14/22 09:53		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		09/14/22 14:44		
pH	<b>5.03</b>	Std. Units			1		09/14/22 14:44		
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Boron	<b>3.4</b>	mg/L	0.040	0.0086	1	09/27/22 18:00	09/29/22 00:43	7440-42-8	

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### ANALYTICAL RESULTS

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report  
Pace Project No.: 92625189

Sample: B-122D		Lab ID: 92625189008		Collected: 09/14/22 10:33		Received: 09/15/22 08:20		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		09/15/22 17:33		
pH	<b>6.07</b>	Std. Units			1		09/15/22 17:33		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	<b>13.8</b>	mg/L	0.040	0.025	1	09/28/22 12:36	09/28/22 16:46	7439-89-6	
Potassium	<b>4.0</b>	mg/L	0.20	0.15	1	09/28/22 12:36	09/28/22 16:46	7440-09-7	
Sodium	<b>31.3</b>	mg/L	1.0	0.58	1	09/28/22 12:36	09/28/22 16:46	7440-23-5	
Calcium	<b>51.0</b>	mg/L	1.0	0.12	1	09/28/22 12:36	09/28/22 16:46	7440-70-2	
Magnesium	<b>9.9</b>	mg/L	0.050	0.012	1	09/28/22 12:36	09/28/22 16:46	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/27/22 18:00	09/29/22 01:01	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/27/22 18:00	09/29/22 01:01	7440-38-2	
Barium	<b>0.046</b>	mg/L	0.0050	0.00067	1	09/27/22 18:00	09/29/22 01:01	7440-39-3	
Beryllium	<b>0.00028J</b>	mg/L	0.00050	0.000054	1	09/27/22 18:00	09/29/22 01:01	7440-41-7	
Boron	<b>0.25</b>	mg/L	0.040	0.0086	1	09/27/22 18:00	09/29/22 01:01	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/27/22 18:00	09/29/22 01:01	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/27/22 18:00	09/29/22 01:01	7440-47-3	
Cobalt	<b>0.0033J</b>	mg/L	0.0050	0.00039	1	09/27/22 18:00	09/29/22 01:01	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/27/22 18:00	09/29/22 01:01	7439-92-1	
Lithium	<b>0.013J</b>	mg/L	0.030	0.00073	1	09/27/22 18:00	09/29/22 01:01	7439-93-2	
Molybdenum	<b>0.0011J</b>	mg/L	0.010	0.00074	1	09/27/22 18:00	09/29/22 01:01	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/27/22 18:00	09/29/22 01:01	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/27/22 18:00	09/29/22 01:01	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	10/03/22 11:30	10/03/22 13:27	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>315</b>	mg/L	25.0	10.0	1		09/19/22 09:22		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	<b>123</b>	mg/L	5.0	5.0	1		09/20/22 16:56		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 16:56		
Alkalinity, Total as CaCO3	<b>123</b>	mg/L	5.0	5.0	1		09/20/22 16:56		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>15.5</b>	mg/L	1.0	0.60	1		09/19/22 18:14	16887-00-6	

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### ANALYTICAL RESULTS

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report

Pace Project No.: 92625189

**Sample: B-122D**      **Lab ID: 92625189008**      Collected: 09/14/22 10:33      Received: 09/15/22 08:20      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	<b>0.17</b>	mg/L	0.10	0.050	1		09/19/22 18:14	16984-48-8	
Sulfate	<b>121</b>	mg/L	2.0	1.0	2		09/20/22 00:34	14808-79-8	

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## ANALYTICAL RESULTS

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report  
Pace Project No.: 92625189

Sample: EB-4		Lab ID: 92625189009		Collected: 09/14/22 11:23		Received: 09/15/22 08:20		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
<b>6010D ATL ICP</b>		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/28/22 12:36	09/28/22 16:50	7439-89-6		
Potassium	ND	mg/L	0.20	0.15	1	09/28/22 12:36	09/28/22 16:50	7440-09-7		
Sodium	ND	mg/L	1.0	0.58	1	09/28/22 12:36	09/28/22 16:50	7440-23-5		
Calcium	ND	mg/L	1.0	0.12	1	09/28/22 12:36	09/28/22 16:50	7440-70-2		
Magnesium	ND	mg/L	0.050	0.012	1	09/28/22 12:36	09/28/22 16:50	7439-95-4		
<b>6020 MET ICPMS</b>		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/27/22 18:00	09/29/22 01:07	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.0022	1	09/27/22 18:00	09/29/22 01:07	7440-38-2		
Barium	<b>0.0024J</b>	mg/L	0.0050	0.00067	1	09/27/22 18:00	09/29/22 01:07	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000054	1	09/27/22 18:00	09/29/22 01:07	7440-41-7		
Boron	ND	mg/L	0.040	0.0086	1	09/27/22 18:00	09/29/22 01:07	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00011	1	09/27/22 18:00	09/29/22 01:07	7440-43-9		
Chromium	ND	mg/L	0.0050	0.0011	1	09/27/22 18:00	09/29/22 01:07	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00039	1	09/27/22 18:00	09/29/22 01:07	7440-48-4		
Lead	ND	mg/L	0.0010	0.00089	1	09/27/22 18:00	09/29/22 01:07	7439-92-1		
Lithium	ND	mg/L	0.030	0.00073	1	09/27/22 18:00	09/29/22 01:07	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00074	1	09/27/22 18:00	09/29/22 01:07	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0014	1	09/27/22 18:00	09/29/22 01:07	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00018	1	09/27/22 18:00	09/29/22 01:07	7440-28-0		
<b>7470 Mercury</b>		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	10/03/22 11:30	10/03/22 13:30	7439-97-6		
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	10.0	1		09/19/22 09:22			
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 17:07			
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 17:07			
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/20/22 17:07			
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		09/19/22 18:29	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		09/19/22 18:29	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		09/19/22 18:29	14808-79-8		

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## ANALYTICAL RESULTS

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report  
Pace Project No.: 92625189

Sample: B-117D		Lab ID: 92625189010		Collected: 09/15/22 10:36		Received: 09/16/22 16:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		09/19/22 10:29		
pH	<b>5.86</b>	Std. Units			1		09/19/22 10:29		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	ND	mg/L	0.040	0.025	1	09/28/22 12:36	09/28/22 16:55	7439-89-6	
Potassium	<b>2.6</b>	mg/L	0.20	0.15	1	09/28/22 12:36	09/28/22 16:55	7440-09-7	
Sodium	<b>16.6</b>	mg/L	1.0	0.58	1	09/28/22 12:36	09/28/22 16:55	7440-23-5	
Calcium	<b>9.5</b>	mg/L	1.0	0.12	1	09/28/22 12:36	09/28/22 16:55	7440-70-2	
Magnesium	<b>1.5</b>	mg/L	0.050	0.012	1	09/28/22 12:36	09/28/22 16:55	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/27/22 18:00	09/29/22 15:21	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/27/22 18:00	09/29/22 15:21	7440-38-2	
Barium	<b>0.043</b>	mg/L	0.0050	0.00067	1	09/27/22 18:00	09/29/22 15:21	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/27/22 18:00	09/29/22 15:21	7440-41-7	
Boron	<b>0.011J</b>	mg/L	0.040	0.0086	1	09/27/22 18:00	09/29/22 15:21	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/27/22 18:00	09/29/22 15:21	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/27/22 18:00	09/29/22 15:21	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/27/22 18:00	09/29/22 15:21	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/27/22 18:00	09/29/22 15:21	7439-92-1	
Lithium	<b>0.0094J</b>	mg/L	0.030	0.00073	1	09/27/22 18:00	09/29/22 15:21	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/27/22 18:00	09/29/22 15:21	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/27/22 18:00	09/29/22 15:21	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/27/22 18:00	09/29/22 15:21	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	10/03/22 11:30	10/03/22 13:33	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>106</b>	mg/L	25.0	10.0	1		09/20/22 13:21		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	<b>42.0</b>	mg/L	5.0	5.0	1		09/20/22 17:38		
Alkalinity, Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	5.0	1		09/20/22 17:38		
Alkalinity, Total as CaCO <sub>3</sub>	<b>42.0</b>	mg/L	5.0	5.0	1		09/20/22 17:38		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>4.6</b>	mg/L	1.0	0.60	1		09/20/22 20:22	16887-00-6	

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### ANALYTICAL RESULTS

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report

Pace Project No.: 92625189

**Sample: B-117D**      **Lab ID: 92625189010**      Collected: 09/15/22 10:36      Received: 09/16/22 16:30      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	<b>0.090J</b>	mg/L	0.10	0.050	1		09/20/22 20:22	16984-48-8	
Sulfate	<b>14.4</b>	mg/L	1.0	0.50	1		09/20/22 20:22	14808-79-8	

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## ANALYTICAL RESULTS

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report  
Pace Project No.: 92625189

Sample: B-123D		Lab ID: 92625189011		Collected: 09/20/22 15:25		Received: 09/21/22 15:05		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		09/21/22 16:51		
pH	<b>7.13</b>	Std. Units			1		09/21/22 16:51		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	<b>5.4</b>	mg/L	0.040	0.025	1	09/28/22 12:36	09/28/22 18:37	7439-89-6	
Potassium	<b>7.6</b>	mg/L	0.20	0.15	1	09/28/22 12:36	09/28/22 18:37	7440-09-7	
Sodium	<b>29.0</b>	mg/L	1.0	0.58	1	09/28/22 12:36	09/28/22 18:37	7440-23-5	
Calcium	<b>90.8</b>	mg/L	1.0	0.12	1	09/28/22 12:36	09/28/22 18:37	7440-70-2	
Magnesium	<b>13.0</b>	mg/L	0.050	0.012	1	09/28/22 12:36	09/28/22 18:37	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/27/22 18:00	09/29/22 16:41	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/27/22 18:00	09/29/22 16:41	7440-38-2	
Barium	<b>0.023</b>	mg/L	0.0050	0.00067	1	09/27/22 18:00	09/29/22 16:41	7440-39-3	
Beryllium	<b>0.00022J</b>	mg/L	0.00050	0.000054	1	09/27/22 18:00	09/29/22 16:41	7440-41-7	
Boron	<b>0.49</b>	mg/L	0.040	0.0086	1	09/27/22 18:00	09/29/22 16:41	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/27/22 18:00	09/29/22 16:41	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/27/22 18:00	09/29/22 16:41	7440-47-3	
Cobalt	<b>0.056</b>	mg/L	0.0050	0.00039	1	09/27/22 18:00	09/29/22 16:41	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/27/22 18:00	09/29/22 16:41	7439-92-1	
Lithium	<b>0.034</b>	mg/L	0.030	0.00073	1	09/27/22 18:00	09/29/22 16:41	7439-93-2	
Molybdenum	<b>0.0015J</b>	mg/L	0.010	0.00074	1	09/27/22 18:00	09/29/22 16:41	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/27/22 18:00	09/29/22 16:41	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/27/22 18:00	09/29/22 16:41	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	10/03/22 11:30	10/03/22 13:35	7439-97-6	
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	<b>38.5</b>	mg/L	5.0	5.0	1		09/22/22 23:09		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/22/22 23:09		
Alkalinity, Total as CaCO3	<b>38.5</b>	mg/L	5.0	5.0	1		09/22/22 23:09		
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2011									
Pace Analytical Services - Asheville									
Total Dissolved Solids	<b>533</b>	mg/L	25.0	25.0	1		09/23/22 10:03		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>8.6</b>	mg/L	1.0	0.60	1		09/23/22 03:42	16887-00-6	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report

Pace Project No.: 92625189

**Sample: B-123D**      **Lab ID: 92625189011**      Collected: 09/20/22 15:25      Received: 09/21/22 15:05      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	<b>0.57</b>	mg/L	0.10	0.050	1		09/23/22 03:42	16984-48-8	
Sulfate	<b>292</b>	mg/L	5.0	2.5	5		09/23/22 05:28	14808-79-8	

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**QUALITY CONTROL DATA**

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report

Pace Project No.: 92625189

QC Batch: 726415 Analysis Method: EPA 6010D  
 QC Batch Method: EPA 3010A Analysis Description: 6010D ATL  
 Laboratory: Pace Analytical Services - Peachtree Corners, GA  
 Associated Lab Samples: 92625189005, 92625189006, 92625189008, 92625189009, 92625189010, 92625189011

METHOD BLANK: 3783437 Matrix: Water  
 Associated Lab Samples: 92625189005, 92625189006, 92625189008, 92625189009, 92625189010, 92625189011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/28/22 16:00	
Iron	mg/L	ND	0.040	0.025	09/28/22 16:00	
Magnesium	mg/L	ND	0.050	0.012	09/28/22 16:00	
Potassium	mg/L	ND	0.20	0.15	09/28/22 16:00	
Sodium	mg/L	ND	1.0	0.58	09/28/22 16:00	

LABORATORY CONTROL SAMPLE: 3783438

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	1.1	108	80-120	
Potassium	mg/L	1	1.0	100	80-120	
Sodium	mg/L	1	1.0	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3783439 3783440

Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		92625189005 Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Calcium	mg/L	10.4	1	1	11.7	11.7	130	136	75-125	1	20	M1	
Iron	mg/L	1.5	1	1	2.6	2.6	106	107	75-125	0	20		
Magnesium	mg/L	3.2	1	1	4.3	4.4	113	123	75-125	2	20		
Potassium	mg/L	2.0	1	1	3.0	3.1	103	108	75-125	2	20		
Sodium	mg/L	10.2	1	1	11.5	11.5	129	135	75-125	0	20	M1	

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**REPORT OF LABORATORY ANALYSIS**

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### QUALITY CONTROL DATA

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report  
Pace Project No.: 92625189

QC Batch: 726202 Analysis Method: EPA 6020B  
QC Batch Method: EPA 3005A Analysis Description: 6020 MET  
Laboratory: Pace Analytical Services - Peachtree Corners, GA  
Associated Lab Samples: 92625189001, 92625189002, 92625189003, 92625189004, 92625189005, 92625189006, 92625189007, 92625189008, 92625189009

METHOD BLANK: 3782708 Matrix: Water  
Associated Lab Samples: 92625189001, 92625189002, 92625189003, 92625189004, 92625189005, 92625189006, 92625189007, 92625189008, 92625189009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/28/22 23:25	
Arsenic	mg/L	ND	0.0050	0.0022	09/28/22 23:25	
Barium	mg/L	ND	0.0050	0.00067	09/28/22 23:25	
Beryllium	mg/L	ND	0.00050	0.000054	09/28/22 23:25	
Boron	mg/L	ND	0.040	0.0086	09/28/22 23:25	
Cadmium	mg/L	ND	0.00050	0.00011	09/28/22 23:25	
Chromium	mg/L	ND	0.0050	0.0011	09/28/22 23:25	
Cobalt	mg/L	ND	0.0050	0.00039	09/28/22 23:25	
Lead	mg/L	ND	0.0010	0.00089	09/28/22 23:25	
Lithium	mg/L	ND	0.030	0.00073	09/28/22 23:25	
Molybdenum	mg/L	ND	0.010	0.00074	09/28/22 23:25	
Selenium	mg/L	ND	0.0050	0.0014	09/28/22 23:25	
Thallium	mg/L	ND	0.0010	0.00018	09/28/22 23:25	

LABORATORY CONTROL SAMPLE: 3782709

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	106	80-120	
Arsenic	mg/L	0.1	0.097	97	80-120	
Barium	mg/L	0.1	0.098	98	80-120	
Beryllium	mg/L	0.1	0.099	99	80-120	
Boron	mg/L	1	0.99	99	80-120	
Cadmium	mg/L	0.1	0.10	100	80-120	
Chromium	mg/L	0.1	0.096	96	80-120	
Cobalt	mg/L	0.1	0.099	99	80-120	
Lead	mg/L	0.1	0.098	98	80-120	
Lithium	mg/L	0.1	0.10	100	80-120	
Molybdenum	mg/L	0.1	0.10	102	80-120	
Selenium	mg/L	0.1	0.098	98	80-120	
Thallium	mg/L	0.1	0.098	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3782710 3782711

Parameter	Units	92625189001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Result							
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	100	103	75-125	3	20	

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**QUALITY CONTROL DATA**

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report

Pace Project No.: 92625189

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3782710 3782711													
Parameter	Units	92625189001		MSD		MSD		% Rec		Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Arsenic	mg/L	ND	0.1	0.1	0.095	0.097	95	97	75-125	1	20		
Barium	mg/L	0.014	0.1	0.1	0.11	0.11	93	96	75-125	3	20		
Beryllium	mg/L	0.0018	0.1	0.1	0.093	0.092	91	91	75-125	0	20		
Boron	mg/L	2.6	1	1	3.7	3.7	107	107	75-125	0	20		
Cadmium	mg/L	0.00092	0.1	0.1	0.098	0.10	97	100	75-125	2	20		
Chromium	mg/L	ND	0.1	0.1	0.090	0.089	90	89	75-125	1	20		
Cobalt	mg/L	0.0032J	0.1	0.1	0.094	0.094	90	91	75-125	1	20		
Lead	mg/L	ND	0.1	0.1	0.090	0.091	90	90	75-125	0	20		
Lithium	mg/L	0.0052J	0.1	0.1	0.10	0.10	97	96	75-125	1	20		
Molybdenum	mg/L	ND	0.1	0.1	0.094	0.095	93	95	75-125	1	20		
Selenium	mg/L	0.0020J	0.1	0.1	0.099	0.098	97	96	75-125	1	20		
Thallium	mg/L	0.00020J	0.1	0.1	0.091	0.090	91	90	75-125	1	20		

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### QUALITY CONTROL DATA

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report  
Pace Project No.: 92625189

QC Batch: 726205 Analysis Method: EPA 6020B  
QC Batch Method: EPA 3005A Analysis Description: 6020 MET  
Laboratory: Pace Analytical Services - Peachtree Corners, GA  
Associated Lab Samples: 92625189010, 92625189011

METHOD BLANK: 3782736 Matrix: Water  
Associated Lab Samples: 92625189010, 92625189011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/29/22 14:50	
Arsenic	mg/L	ND	0.0050	0.0022	09/29/22 14:50	
Barium	mg/L	ND	0.0050	0.00067	09/29/22 14:50	
Beryllium	mg/L	ND	0.00050	0.000054	09/29/22 14:50	
Boron	mg/L	ND	0.040	0.0086	09/29/22 14:50	
Cadmium	mg/L	ND	0.00050	0.00011	09/29/22 14:50	
Chromium	mg/L	ND	0.0050	0.0011	09/29/22 14:50	
Cobalt	mg/L	ND	0.0050	0.00039	09/29/22 14:50	
Lead	mg/L	ND	0.0010	0.00089	09/29/22 14:50	
Lithium	mg/L	ND	0.030	0.00073	09/29/22 14:50	
Molybdenum	mg/L	ND	0.010	0.00074	09/29/22 14:50	
Selenium	mg/L	ND	0.0050	0.0014	09/29/22 14:50	
Thallium	mg/L	ND	0.0010	0.00018	09/29/22 14:50	

LABORATORY CONTROL SAMPLE: 3782737

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	0.095	95	80-120	
Barium	mg/L	0.1	0.094	94	80-120	
Beryllium	mg/L	0.1	0.096	96	80-120	
Boron	mg/L	1	1.0	102	80-120	
Cadmium	mg/L	0.1	0.098	98	80-120	
Chromium	mg/L	0.1	0.10	102	80-120	
Cobalt	mg/L	0.1	0.10	101	80-120	
Lead	mg/L	0.1	0.099	99	80-120	
Lithium	mg/L	0.1	0.098	98	80-120	
Molybdenum	mg/L	0.1	0.095	95	80-120	
Selenium	mg/L	0.1	0.097	97	80-120	
Thallium	mg/L	0.1	0.098	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3782738 3782739

Parameter	Units	92625189010 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	0.098	0.10	97	101	75-125	3	20	
Arsenic	mg/L	ND	0.1	0.1	0.094	0.097	93	96	75-125	3	20	

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**QUALITY CONTROL DATA**

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report

Pace Project No.: 92625189

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3782738 3782739												
Parameter	Units	92625189010		MS	MSD	MS		MSD		% Rec Limits	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec			
Barium	mg/L	0.043	0.1	0.1	0.13	0.14	90	93	75-125	2	20	
Beryllium	mg/L	ND	0.1	0.1	0.089	0.092	89	92	75-125	4	20	
Boron	mg/L	0.011J	1	1	0.92	0.98	91	97	75-125	6	20	
Cadmium	mg/L	ND	0.1	0.1	0.096	0.099	96	99	75-125	3	20	
Chromium	mg/L	ND	0.1	0.1	0.097	0.10	96	100	75-125	4	20	
Cobalt	mg/L	ND	0.1	0.1	0.098	0.10	98	103	75-125	4	20	
Lead	mg/L	ND	0.1	0.1	0.093	0.098	93	98	75-125	5	20	
Lithium	mg/L	0.0094J	0.1	0.1	0.099	0.10	90	94	75-125	4	20	
Molybdenum	mg/L	ND	0.1	0.1	0.095	0.10	95	100	75-125	6	20	
Selenium	mg/L	ND	0.1	0.1	0.094	0.095	94	95	75-125	1	20	
Thallium	mg/L	ND	0.1	0.1	0.094	0.098	94	98	75-125	4	20	

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### QUALITY CONTROL DATA

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report  
Pace Project No.: 92625189

QC Batch: 727398 Analysis Method: EPA 7470A  
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury  
Laboratory: Pace Analytical Services - Peachtree Corners, GA  
Associated Lab Samples: 92625189005, 92625189006, 92625189008, 92625189009, 92625189010, 92625189011

METHOD BLANK: 3787972 Matrix: Water  
Associated Lab Samples: 92625189005, 92625189006, 92625189008, 92625189009, 92625189010, 92625189011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	10/03/22 13:17	

LABORATORY CONTROL SAMPLE: 3787973

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: 3787974 3787975

Parameter	Units	3787974		3787975		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92625178002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Mercury	mg/L	0.00016J	0.0025	0.0025	0.0022	0.0022	82	81	75-125	1	20

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### QUALITY CONTROL DATA

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report  
Pace Project No.: 92625189

QC Batch: 723325 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: 92625189005, 92625189006

METHOD BLANK: 3768875 Matrix: Water  
Associated Lab Samples: 92625189005, 92625189006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	10.0	09/15/22 11:44	

LABORATORY CONTROL SAMPLE: 3768876

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	374	94	80-120	

SAMPLE DUPLICATE: 3768878

Parameter	Units	92625189005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	87.0	83.0	5	10	

SAMPLE DUPLICATE: 3768892

Parameter	Units	92625181001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	197	193	2	10	

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### QUALITY CONTROL DATA

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report

Pace Project No.: 92625189

QC Batch: 724043	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: 92625189008, 92625189009

METHOD BLANK: 3772705 Matrix: Water

Associated Lab Samples: 92625189008, 92625189009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	10.0	09/19/22 09:17	

LABORATORY CONTROL SAMPLE: 3772706

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	386	96	80-120	

SAMPLE DUPLICATE: 3772708

Parameter	Units	92625623010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	572	582	2	10	

SAMPLE DUPLICATE: 3772903

Parameter	Units	92625178010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	582	578	1	10	

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### QUALITY CONTROL DATA

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report

Pace Project No.: 92625189

QC Batch: 724233	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: 92625189010

METHOD BLANK: 3773743 Matrix: Water

Associated Lab Samples: 92625189010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	10.0	09/20/22 13:21	

LABORATORY CONTROL SAMPLE: 3773744

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	346	86	80-120	

SAMPLE DUPLICATE: 3773745

Parameter	Units	92625623012 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	437	420	4	10	

SAMPLE DUPLICATE: 3773746

Parameter	Units	92625623021 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	440	405	8	10	

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### QUALITY CONTROL DATA

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report  
Pace Project No.: 92625189

QC Batch: 723613 Analysis Method: SM 2320B-2011  
QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity  
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92625189005, 92625189006

METHOD BLANK: 3770309 Matrix: Water  
Associated Lab Samples: 92625189005, 92625189006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	09/16/22 13:22	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	09/16/22 13:22	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	09/16/22 13:22	

LABORATORY CONTROL SAMPLE: 3770310

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.1	104	80-120	

LABORATORY CONTROL SAMPLE: 3770311

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: 3770314 3770315

Parameter	Units	92625683004		3770314		3770315		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					MS % Rec
Alkalinity, Total as CaCO3	mg/L	190	190	50	50	247	262	114	144	80-120	6	25 M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3771994 3771995

Parameter	Units	92625683003		3771994		3771995		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					MS % Rec
Alkalinity, Total as CaCO3	mg/L	ND	ND	50	50	54.9	54.9	104	103	80-120	0	25

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report  
Pace Project No.: 92625189

QC Batch: 724379 Analysis Method: SM 2320B-2011  
QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity  
Laboratory: Pace Analytical Services - Asheville  
Associated Lab Samples: 92625189008, 92625189009, 92625189010

METHOD BLANK: 3774170 Matrix: Water  
Associated Lab Samples: 92625189008, 92625189009, 92625189010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	09/20/22 15:05	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	09/20/22 15:05	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	09/20/22 15:05	

LABORATORY CONTROL SAMPLE: 3774171

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.8	104	80-120	

LABORATORY CONTROL SAMPLE: 3774172

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.4	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3774173 3774174

Parameter	Units	92625623006		3774173		3774174		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					
Alkalinity, Total as CaCO3	mg/L	ND	50	50	50.8	51.4	102	103	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3774175 3774176

Parameter	Units	92625623011		3774175		3774176		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					
Alkalinity, Total as CaCO3	mg/L	ND	50	50	56.4	56.1	104	104	80-120	1	25	

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### QUALITY CONTROL DATA

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report  
Pace Project No.: 92625189

QC Batch: 725081 Analysis Method: SM 2320B-2011  
QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity  
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92625189011

METHOD BLANK: 3777562 Matrix: Water  
Associated Lab Samples: 92625189011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	09/23/22 14:29	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	09/23/22 14:29	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	09/23/22 14:29	

LABORATORY CONTROL SAMPLE: 3777563

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.5	101	80-120	

LABORATORY CONTROL SAMPLE: 3777564

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.4	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3777565 3777566

Parameter	Units	92626727004		3777565		3777566		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					MS % Rec
Alkalinity, Total as CaCO3	mg/L	449	449	50	50	471	468	43	37	80-120	1	25 M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3777567 3777568

Parameter	Units	92626727005		3777567		3777568		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					MS % Rec
Alkalinity, Total as CaCO3	mg/L	149	149	50	50	207	200	116	103	80-120	3	25

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### QUALITY CONTROL DATA

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report  
Pace Project No.: 92625189

QC Batch: 725355      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: 92625189011

METHOD BLANK: 3778984      Matrix: Water  
Associated Lab Samples: 92625189011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	09/23/22 10:01	

LABORATORY CONTROL SAMPLE: 3778985

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	242	97	90-110	

SAMPLE DUPLICATE: 3778986

Parameter	Units	92626923001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	29.0	33.0	13	25	

SAMPLE DUPLICATE: 3778987

Parameter	Units	92626865001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2430	2480	2	25	

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### QUALITY CONTROL DATA

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report  
Pace Project No.: 92625189

QC Batch: 723467 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: 92625189005, 92625189006

METHOD BLANK: 3769521 Matrix: Water  
Associated Lab Samples: 92625189005, 92625189006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/15/22 15:11	
Fluoride	mg/L	ND	0.10	0.050	09/15/22 15:11	
Sulfate	mg/L	ND	1.0	0.50	09/15/22 15:11	

LABORATORY CONTROL SAMPLE: 3769522

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.0	98	90-110	
Fluoride	mg/L	2.5	2.5	100	90-110	
Sulfate	mg/L	50	49.3	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3769523 3769524

Parameter	Units	92625147002		3769523		3769524		% 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	94.2	94.2	50	50	133	134	77	79	90-110	1	10	M1
Fluoride	mg/L	0.49	0.49	2.5	2.5	3.0	3.0	101	102	90-110	1	10	
Sulfate	mg/L	53.6	53.6	50	50	99.3	100	91	93	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3769525 3769526

Parameter	Units	92625178002		3769525		3769526		% 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	15.0	15.0	50	50	66.7	67.1	103	104	90-110	1	10	
Fluoride	mg/L	0.40	0.40	2.5	2.5	3.6	3.6	127	128	90-110	1	10	M1
Sulfate	mg/L	508	508	50	50	552	552	88	89	90-110	0	10	M1

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### QUALITY CONTROL DATA

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report  
Pace Project No.: 92625189

QC Batch: 724055 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: 92625189008, 92625189009

METHOD BLANK: 3772745 Matrix: Water  
Associated Lab Samples: 92625189008, 92625189009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/19/22 00:00	
Fluoride	mg/L	ND	0.10	0.050	09/19/22 00:00	
Sulfate	mg/L	ND	1.0	0.50	09/19/22 00:00	

LABORATORY CONTROL SAMPLE: 3772746

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.9	100	90-110	
Fluoride	mg/L	2.5	2.6	104	90-110	
Sulfate	mg/L	50	50.9	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3772749 3772750

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92625178011 Result	Spike Conc.	Spike Conc.	Result								
Chloride	mg/L	10.3	50	50	61.5	61.6	102	103	90-110	0	10		
Fluoride	mg/L	0.38	2.5	2.5	3.0	3.0	106	107	90-110	1	10		
Sulfate	mg/L	228	50	50	276	279	97	102	90-110	1	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3772755 3772756

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92625980001 Result	Spike Conc.	Spike Conc.	Result								
Chloride	mg/L	2.6	50	50	53.2	53.2	101	101	90-110	0	10		
Fluoride	mg/L	ND	2.5	2.5	2.6	2.6	101	102	90-110	0	10		
Sulfate	mg/L	5.5	50	50	56.9	56.6	103	102	90-110	0	10		

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### QUALITY CONTROL DATA

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report  
Pace Project No.: 92625189

QC Batch: 724437 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: 92625189010

METHOD BLANK: 3774398 Matrix: Water  
Associated Lab Samples: 92625189010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/20/22 18:23	
Fluoride	mg/L	ND	0.10	0.050	09/20/22 18:23	
Sulfate	mg/L	ND	1.0	0.50	09/20/22 18:23	

LABORATORY CONTROL SAMPLE: 3774399

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.4	99	90-110	
Fluoride	mg/L	2.5	2.5	101	90-110	
Sulfate	mg/L	50	50.2	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3774400 3774401

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92626469002	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	105	50	50	50	159	159	108	107	90-110	0	10	
Fluoride	mg/L	0.49	2.5	2.5	2.5	3.1	3.2	106	107	90-110	1	10	
Sulfate	mg/L	31.2	50	50	50	82.4	82.6	102	103	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3774402 3774403

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92625623020	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	26.2	50	50	50	77.4	77.1	102	102	90-110	0	10	
Fluoride	mg/L	0.69	2.5	2.5	2.5	3.2	3.3	102	104	90-110	1	10	
Sulfate	mg/L	462	50	50	50	509	510	92	95	90-110	0	10	

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### QUALITY CONTROL DATA

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report  
Pace Project No.: 92625189

QC Batch: 725140 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: 92625189011

METHOD BLANK: 3777923 Matrix: Water  
Associated Lab Samples: 92625189011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/22/22 20:18	
Fluoride	mg/L	ND	0.10	0.050	09/22/22 20:18	
Sulfate	mg/L	ND	1.0	0.50	09/22/22 20:18	

LABORATORY CONTROL SAMPLE: 3777924

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	47.3	95	90-110	
Fluoride	mg/L	2.5	2.4	97	90-110	
Sulfate	mg/L	50	47.6	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3777925 3777926

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92626959007	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	12.9	50	50	61.1	61.1	96	96	90-110	0	10		
Fluoride	mg/L	0.23	2.5	2.5	2.7	2.7	98	97	90-110	1	10		
Sulfate	mg/L	31.0	50	50	79.4	79.5	97	97	90-110	0	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3777927 3777928

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92626959011	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	15.2	50	50	63.1	63.7	96	97	90-110	1	10		
Fluoride	mg/L	0.38	2.5	2.5	2.9	2.9	101	102	90-110	1	10		
Sulfate	mg/L	ND	50	50	47.9	48.6	95	96	90-110	1	10		

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## QUALIFIERS

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report

Pace Project No.: 92625189

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### 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 AP-1, 2, 3/4 Supplem-Revised Report

Pace Project No.: 92625189

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92625189001	B-90				
92625189002	B-91				
92625189003	B-95				
92625189004	B-99				
92625189005	B-119D				
92625189007	B-96				
92625189008	B-122D				
92625189010	B-117D				
92625189011	B-123D				
92625189005	B-119D	EPA 3010A	726415	EPA 6010D	726515
92625189006	Dup-3	EPA 3010A	726415	EPA 6010D	726515
92625189008	B-122D	EPA 3010A	726415	EPA 6010D	726515
92625189009	EB-4	EPA 3010A	726415	EPA 6010D	726515
92625189010	B-117D	EPA 3010A	726415	EPA 6010D	726515
92625189011	B-123D	EPA 3010A	726415	EPA 6010D	726515
92625189001	B-90	EPA 3005A	726202	EPA 6020B	726322
92625189002	B-91	EPA 3005A	726202	EPA 6020B	726322
92625189003	B-95	EPA 3005A	726202	EPA 6020B	726322
92625189004	B-99	EPA 3005A	726202	EPA 6020B	726322
92625189005	B-119D	EPA 3005A	726202	EPA 6020B	726322
92625189006	Dup-3	EPA 3005A	726202	EPA 6020B	726322
92625189007	B-96	EPA 3005A	726202	EPA 6020B	726322
92625189008	B-122D	EPA 3005A	726202	EPA 6020B	726322
92625189009	EB-4	EPA 3005A	726202	EPA 6020B	726322
92625189010	B-117D	EPA 3005A	726205	EPA 6020B	726325
92625189011	B-123D	EPA 3005A	726205	EPA 6020B	726325
92625189005	B-119D	EPA 7470A	727398	EPA 7470A	727474
92625189006	Dup-3	EPA 7470A	727398	EPA 7470A	727474
92625189008	B-122D	EPA 7470A	727398	EPA 7470A	727474
92625189009	EB-4	EPA 7470A	727398	EPA 7470A	727474
92625189010	B-117D	EPA 7470A	727398	EPA 7470A	727474
92625189011	B-123D	EPA 7470A	727398	EPA 7470A	727474
92625189005	B-119D	SM 2540C-2015	723325		
92625189006	Dup-3	SM 2540C-2015	723325		
92625189008	B-122D	SM 2540C-2015	724043		
92625189009	EB-4	SM 2540C-2015	724043		
92625189010	B-117D	SM 2540C-2015	724233		
92625189005	B-119D	SM 2320B-2011	723613		
92625189006	Dup-3	SM 2320B-2011	723613		
92625189008	B-122D	SM 2320B-2011	724379		
92625189009	EB-4	SM 2320B-2011	724379		
92625189010	B-117D	SM 2320B-2011	724379		
92625189011	B-123D	SM 2320B-2011	725081		

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report  
Pace Project No.: 92625189

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92625189011	B-123D	SM 2540C-2011	725355		
92625189005	B-119D	EPA 300.0 Rev 2.1 1993	723467		
92625189006	Dup-3	EPA 300.0 Rev 2.1 1993	723467		
92625189008	B-122D	EPA 300.0 Rev 2.1 1993	724055		
92625189009	EB-4	EPA 300.0 Rev 2.1 1993	724055		
92625189010	B-117D	EPA 300.0 Rev 2.1 1993	724437		
92625189011	B-123D	EPA 300.0 Rev 2.1 1993	725140		

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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#: 92625189



Courier:  Commercial  Fed Ex  Pace  UPS  USPS  Other:  Client

Date/Initials Person Examining Contents: 9/15/22  
COJ

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

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

Biological Tissue Frozen?  Yes  No  N/A

Cooler Temp: 3.8 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): 3.8

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.
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 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.

Project #

**WO# : 92625189**  
 PM: NMG Due Date: 09/27/22  
 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

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-)	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 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)	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).





DC#\_ Title: ENV-FRM-HUN1-0083 v01\_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mecklenburg

Sample Condition Upon Receipt

Client Name:

GA Power

Project #:

WO#: 92625189

PM: NMG

Due Date: 09/27/22

CLIENT: GA-GA Power

Courier:

Commercial

Fed Ex

UPS

USPS

Other:

Client

Custody Seal Present?  Yes  No

Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 9/14/22

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Thermometer:

IR Gun ID:

230

Type of Ice:

Wet

Blue

None

Biological Tissue Frozen?

Yes

No

N/A

Cooler Temp:

3.2

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):

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required?  Yes  No

CLIENT NOTIFICATION/RESOLUTION

Lot ID of split containers:

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#: 92625189**

PM: NMG

Due Date: 09/27/22

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 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-)	VSGU-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 DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.





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:

Georgia Power

Project

WO#: 92625189

PM: NMG

Due Date: 09/27/22

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: 09/13/22 JM

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:

1.9

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):

1.9

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 checked="" 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. NO DATA
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: WLG		
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

**WO# : 92625189**

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

Project #

PM: NMG

Due Date: 09/27/22

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

CLIENT: GA-GA Power

\*\*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 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)	
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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).





DC#\_Title: ENV-FRM-HUN1-0083 v01\_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  M...  Atlanta  Knoxville

Sample Condition Upon Receipt

Client Name: Georgia Power

Project

WO#: 92625189

PM: NMG Due Date: 09/27/22  
CLIENT: GA-GA Power

Courier:  Commercial  Fed Ex  Pace  UPS  USPS  Other:  Client

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 9/17/22 JM

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

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

Biological Tissue Frozen?  Yes  No  N/A

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

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

Cooler Temp Corrected (°C): 3.3

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

Chain of Custody Present?	Yes	No	N/A	1.	Comments/Discrepancy:
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: W9					
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

CLIENT NOTIFICATION/RESOLUTION

Lot ID of split containers:

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

Project

**WO# : 92625189**

PM: NMG

Due Date: 09/27/22

CLIENT: GA-GA Power

\*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

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 NazSO3 (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)			
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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.

<b>Section A</b> Required Client Information: Company: Georgia Power - Coal Combustion Residuals Address: 2480 Marner Road Atlanta, GA 30339 Email: <a href="mailto:LANCER@SOUTHERNCO.COM">LANCER@SOUTHERNCO.COM</a> Phone: (470) 620-6176 Requested Date: 10 Day TAT	<b>Section B</b> Required Project Information: Report To: Lajuan Collier Copy To: Galder Project Name: Plant MGD AP-1, 2, 3A Supplemental Well Network Project # QL15649522 Purchase Order #: Plant MGD AP-1, 2, 3A Supplemental Well Network Project # QL15649522
<b>Section C</b> Invoice Information: Attention: scanuocaa@southinco.com Company Name: Address: Face Quote: Face Project Manager: Nicole D'Ono Face Profile #: Regulatory Agency: State/Location: GA	Requested Analysis Filtered (Y/N): Residual Chlorine (Y/N) State/Location: GA

ITEM #	MATRIX	CODE	DATE	TIME	PRESERVED	ANALYSES TEST	TEMP IN C	RECEIVED ON CE (Y/N)	CUSTODY SEALED COOLER (Y/N)	SAMPLES INTACT (Y/N)
1	B-117D	WG C	9/15/2022	10:36	6 3 3	App III/IV Total Metals Cl, F, SO4, TDS Radium 226/228 Mg, Na, K CO3+HCO2 Fe Total, Fe 3+				
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14										

ADDITIONAL COMMENTS: *None*

RELINQUISHED BY / AFFILIATION: *Galder* DATE: *9/16* TIME: *16:30*

ACCEPTED BY / AFFILIATION: *[Signature]* DATE: *9/16* TIME: *16:30*

DATE SIGNED: \_\_\_\_\_

10



DC#\_Title: ENV-FRM-HUN1-0083 v01\_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Meridianville  Atlanta  Kernersville

Sample Condition Upon Receipt

Client Name:

Georgia Power Project #:

WO#: 92625189

PM: NMG

Due Date: 09/27/22

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: 4/21/22 AF

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: 3.6 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): 3.6

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.
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: W G	
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

Proj

**WO# : 92625189**

PM: NMG

Due Date: 09/27/22

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)	DG9A-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-)	V\$GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
1		2	1		1																								
2																													
3																													
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6																													
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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 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: 2490 Manor Road  
 Atlanta, GA 30339  
 Email: lauckner@scott@rmo.com  
 Phone: (478) 620-6176  
 Requested Date: 10 Dec 2011

**Section B** Required Project Information:  
 Report To: Lauren Collier  
 Copy To: Golder  
 Project Name: Plant M&D AP-1, 2, 3/4  
 Supplemental Wet Network  
 Project #: GL168240622

**Section C** Invoice Information:  
 Attention: scannocas@scott@rmo.com  
 Company Name: [Blank]  
 Address: [Blank]  
 Project Manager: Nicola D'Ono  
 Project #: [Blank]

Regulate by Agency: [Blank]  
 State / Location: GA

Page: 1 of 1

ITEM #	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB G-COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Requester Analyte Filtered (Y/N)	Residual Chlorine (Y/N)	pH = 7.13 F&G = 4.5 mg/L
							Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3			
1	B 123C	WG	9/20/2011	15:25		6	1								
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															

**ADDITIONAL COMMENTS**

RELINQUISHED BY / AFFILIATION: [Signature] DATE: 09/20/11 TIME: 15:05

ACCEPTED BY / AFFILIATION: [Signature] DATE: 9/21/11 TIME: 15:05

TEMP in C: [Blank]

Received on Ice (Y/N): [Blank]

Custody Sealed Cooler (Y/N): [Blank]

Samples Intact (Y/N): [Blank]

DATE signed: [Blank]



November 04, 2022

Andrea McClure  
WSP/Golder  
5170 Peachtree Road  
Building 100, Suite 300  
Atlanta, GA 30341

RE: Project: McDonough AP-1, 2, 3/4 Sup Rad-Revised Report  
Pace Project No.: 92625212

Dear Andrea McClure:

Enclosed are the analytical results for sample(s) received by the laboratory between September 13, 2022 and September 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

Revision 1: Issued on 11/4/22 to include Radium QC Sheets.

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: Joju Abraham, Georgia Power-CCR  
Stephen Benda, Southern Company  
Noelia Gangi, Georgia Power  
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.  
Michael Smilley, Georgia Power  
Yong Cheng Soo, WSP/Golder  
Tina Sullivan, ERM



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: McDonough AP-1, 2, 3/4 Sup Rad-Revised Report  
Pace Project No.: 92625212

---

### **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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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: McDonough AP-1, 2, 3/4 Sup Rad-Revised Report

Pace Project No.: 92625212

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92625212001	B-119D	Water	09/12/22 10:37	09/13/22 10:30
92625212002	Dup-3	Water	09/12/22 00:00	09/13/22 10:30
92625212003	B-122D	Water	09/14/22 10:33	09/15/22 08:20
92625212004	EB-4	Water	09/14/22 11:23	09/15/22 08:20
92625212005	B-117D	Water	09/15/22 10:36	09/16/22 16:30
92625212006	B-123D	Water	09/20/22 15:25	09/21/22 15:05

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### SAMPLE ANALYTE COUNT

Project: McDonough AP-1, 2, 3/4 Sup Rad-Revised Report  
Pace Project No.: 92625212

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92625212001	B-119D	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625212002	Dup-3	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625212003	B-122D	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625212004	EB-4	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625212005	B-117D	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625212006	B-123D	EPA 9315	RMS	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, 2, 3/4 Sup Rad-Revised Report

Pace Project No.: 92625212

**Sample: B-119D**      **Lab ID: 92625212001**      Collected: 09/12/22 10:37      Received: 09/13/22 10:30      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	<b>0.145 ± 0.105 (0.174)</b> <b>C:97% T:NA</b>	pCi/L	10/12/22 20:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.183 ± 0.492 (1.10)</b> <b>C:57% T:87%</b>	pCi/L	10/10/22 13:31	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.328 ± 0.597 (1.27)</b>	pCi/L	10/14/22 17:44	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-1, 2, 3/4 Sup Rad-Revised Report

Pace Project No.: 92625212

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: Dup-3</b> <b>Lab ID: 92625212002</b> Collected: 09/12/22 00:00      Received: 09/13/22 10:30      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.181 ± 0.112 (0.162)</b> <b>C:89% T:NA</b>	pCi/L	10/12/22 20:23	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.486 ± 0.414 (0.828)</b> <b>C:80% T:84%</b>	pCi/L	10/10/22 13:31	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.667 ± 0.526 (0.990)</b>	pCi/L	10/14/22 17:44	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-1, 2, 3/4 Sup Rad-Revised Report

Pace Project No.: 92625212

**Sample: B-122D**      **Lab ID: 92625212003**      Collected: 09/14/22 10:33      Received: 09/15/22 08:20      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	<b>3.11 ± 0.608 (0.173)</b> <b>C:94% T:NA</b>	pCi/L	10/13/22 08:44	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>4.83 ± 1.10 (0.803)</b> <b>C:73% T:86%</b>	pCi/L	10/11/22 14:44	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>7.94 ± 1.71 (0.976)</b>	pCi/L	10/14/22 17:45	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-1, 2, 3/4 Sup Rad-Revised Report

Pace Project No.: 92625212

**Sample: EB-4**      **Lab ID: 92625212004**      Collected: 09/14/22 11:23      Received: 09/15/22 08:20      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	<b>0.00481 ± 0.0724 (0.197)</b> <b>C:94% T:NA</b>	pCi/L	10/13/22 08:44	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.590 ± 0.416 (0.802)</b> <b>C:73% T:88%</b>	pCi/L	10/11/22 14:45	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.595 ± 0.488 (0.999)</b>	pCi/L	10/14/22 17:45	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-1, 2, 3/4 Sup Rad-Revised Report

Pace Project No.: 92625212

**Sample: B-117D**      **Lab ID: 92625212005**      Collected: 09/15/22 10:36      Received: 09/16/22 16:30      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	<b>0.241 ± 0.142 (0.224)</b> <b>C:96% T:NA</b>	pCi/L	10/07/22 08:30	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.634 ± 0.403 (0.757)</b> <b>C:76% T:84%</b>	pCi/L	10/04/22 15:43	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.875 ± 0.545 (0.981)</b>	pCi/L	10/07/22 15:37	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-1, 2, 3/4 Sup Rad-Revised Report  
Pace Project No.: 92625212

**Sample: B-123D**      **Lab ID: 92625212006**      Collected: 09/20/22 15:25      Received: 09/21/22 15:05      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	<b>0.792 ± 0.230 (0.152)</b> <b>C:94% T:NA</b>	pCi/L	10/11/22 09:25	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>2.16 ± 0.657 (0.891)</b> <b>C:79% T:90%</b>	pCi/L	10/04/22 12:33	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>2.95 ± 0.887 (1.04)</b>	pCi/L	10/11/22 14:52	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: McDonough AP-1, 2, 3/4 Sup Rad-Revised Report

Pace Project No.: 92625212

QC Batch:	535740	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92625212006

METHOD BLANK:	2599417	Matrix:	Water
---------------	---------	---------	-------

Associated Lab Samples: 92625212006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0657 ± 0.105 (0.234) C:98% T:NA	pCi/L	10/11/22 09:17	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: McDonough AP-1, 2, 3/4 Sup Rad-Revised Report

Pace Project No.: 92625212

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QC Batch: 536956	Analysis Method: EPA 9315
QC Batch Method: EPA 9315	Analysis Description: 9315 Total Radium
	Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92625212003, 92625212004

---

METHOD BLANK: 2605313 Matrix: Water

Associated Lab Samples: 92625212003, 92625212004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.000824 ± 0.0487 (0.149) C:97% T:NA	pCi/L	10/12/22 20:07	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: McDonough AP-1, 2, 3/4 Sup Rad-Revised Report

Pace Project No.: 92625212

QC Batch: 535922

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92625212001, 92625212002

METHOD BLANK: 2600355

Matrix: Water

Associated Lab Samples: 92625212001, 92625212002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0438 ± 0.0695 (0.152) C:94% T:NA	pCi/L	10/12/22 20:23	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: McDonough AP-1, 2, 3/4 Sup Rad-Revised Report

Pace Project No.: 92625212

QC Batch: 534681

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92625212005

METHOD BLANK: 2594503

Matrix: Water

Associated Lab Samples: 92625212005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0423 ± 0.0706 (0.157) C:95% T:NA	pCi/L	10/07/22 09:37	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: McDonough AP-1, 2, 3/4 Sup Rad-Revised Report

Pace Project No.: 92625212

QC Batch: 536957

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92625212003, 92625212004

METHOD BLANK: 2605315

Matrix: Water

Associated Lab Samples: 92625212003, 92625212004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.660 ± 0.393 (0.716) C:65% T:87%	pCi/L	10/11/22 11:38	

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,  
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### QUALITY CONTROL - RADIOCHEMISTRY

Project: McDonough AP-1, 2, 3/4 Sup Rad-Revised Report

Pace Project No.: 92625212

QC Batch: 534679

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92625212005

METHOD BLANK: 2594500

Matrix: Water

Associated Lab Samples: 92625212005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	-0.343 ± 0.266 (0.703) C:75% T:90%	pCi/L	10/04/22 15:45	

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, 2, 3/4 Sup Rad-Revised Report

Pace Project No.: 92625212

QC Batch: 535924

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92625212001, 92625212002

METHOD BLANK: 2600360

Matrix: Water

Associated Lab Samples: 92625212001, 92625212002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.590 ± 0.382 (0.710) C:71% T:92%	pCi/L	10/10/22 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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### QUALITY CONTROL - RADIOCHEMISTRY

Project: McDonough AP-1, 2, 3/4 Sup Rad-Revised Report

Pace Project No.: 92625212

QC Batch: 535739

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92625212006

METHOD BLANK: 2599416

Matrix: Water

Associated Lab Samples: 92625212006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.0371 ± 0.270 (0.626) C:74% T:89%	pCi/L	10/04/22 12:22	

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, 2, 3/4 Sup Rad-Revised Report  
Pace Project No.: 92625212

---

### 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, 2, 3/4 Sup Rad-Revised Report  
Pace Project No.: 92625212

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92625212001	B-119D	EPA 9315	535922		
92625212002	Dup-3	EPA 9315	535922		
92625212003	B-122D	EPA 9315	536956		
92625212004	EB-4	EPA 9315	536956		
92625212005	B-117D	EPA 9315	534681		
92625212006	B-123D	EPA 9315	535740		
92625212001	B-119D	EPA 9320	535924		
92625212002	Dup-3	EPA 9320	535924		
92625212003	B-122D	EPA 9320	536957		
92625212004	EB-4	EPA 9320	536957		
92625212005	B-117D	EPA 9320	534679		
92625212006	B-123D	EPA 9320	535739		
92625212001	B-119D	Total Radium Calculation	540022		
92625212002	Dup-3	Total Radium Calculation	540022		
92625212003	B-122D	Total Radium Calculation	540023		
92625212004	EB-4	Total Radium Calculation	540023		
92625212005	B-117D	Total Radium Calculation	538367		
92625212006	B-123D	Total Radium Calculation	538980		

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
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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

Sample Condition Upon Receipt

Client Name: Georgia Power

Project

WO#: 92625212



Courier:  Commercial  Fed Ex  UPS  USPS  Client  Pace  Other:

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 09/13/22 JM

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: 1.9 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): 1.9

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. 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: W6		
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	

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: \_\_\_\_\_



DC#\_Title: ENV-FRM-HUN1-0083 v01\_Sample Condition Upon Receipt

Effective Date: 05/12/2022

**WO#: 92625212**

Project #

PM: NMG

Due Date: 10/04/22

CLIENT: GA-GA Power

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

Exceptions: VOA, Coliform, TDC, 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-)	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)	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)	SP1N	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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**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.



	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# : 92625212**  
 PM: NMG Due Date: 10/04/22  
 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: 9/15/22  
COB

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: 3.8 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): 3.8

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.
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: <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 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#: 92625212

PM: NMG

Due Date: 10/04/22

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 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)			
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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.





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: Georgia Power

Project:

WO#: 92625212

Courier:  Commercial  Fed Ex  Pace  UPS  USPS  Other:  Client

PM: NMG Due Date: 10/04/22 CLIENT: GA-GA Power

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 9/17/22 JM

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?  Yes  No  N/A

Thermometer:  IR Gun ID: 230 Correction Factor: Add/Subtract (°C) 0.0 Type of Ice:  Wet  Blue  None

Cooler Temp: 3.3

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

Cooler Temp Corrected (°C): 3.3

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

Chain of Custody Present?	Yes	No	N/A	1.	Comments/Discrepancy:
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"/>	7.	
Containers Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8.	
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	9.	
Sample Labels Match COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
-Includes Date/Time/ID/Analysis Matrix: WG					
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

CLIENT NOTIFICATION/RESOLUTION

Lot ID of split containers:

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

Pro.

**WO# : 92625212**

PM: NMG

Due Date: 10/04/22

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)	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-)	VSGU-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 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.

<b>Section A</b>		<b>Section B</b>		<b>Section C</b>	
<b>Required Client Information:</b>		<b>Required Project Information:</b>		<b>Invoice Information:</b>	
Company: Georgia Power - Coal Combustion Products	Address: 2480 Maser Road Atlanta, GA 30339	Report To: Lauren Collier	Copy To: Collier	Attention: scharnes@gepower.com	Company Name: scharnes@gepower.com
Email: jhucoker@gepower.com	Phone: (478) 620-6176	Purchase Order #: Plant M&D AP-1 2 3/4	Project Name: Supplemental Well Network	Project #: GL1694932	Face Profile #
Requested Due Date: 10 Day TAT		Requested Analysis Filtered (Y/N)		Requested Analysis Filtered (Y/N)	
Regulatory Agency:		State / Location:		GA	

Page: 1 of 1

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / -) Sample IDs must be unique	MATRIX Drinking Water Wastewater Surface Water Other Tanks	CODE DW WW SW OT TS	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analyses Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	pH = 5.86 Fa2 = 0.0 mg/L	TEMP in C	Received on ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)	ADDITIONAL COMMENTS	
																	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)
1	B-117D			07/15/2022	10:30		6	3	Unpreserved - Ice H2SO4 HNO3 + Ice HCl NaOH + Zn Acetate Na2S2O3 Methanol Other	Y/N	X	X	X	X	X	X	X	RELINQUISHED BY / AFFILIATION: <i>Goib...</i> DATE: 07/16/22 TIME: 16:25 ACCEPTED BY / AFFILIATION: <i>...</i> DATE: 07/16 TIME: 16:30
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		

DATE Signed: \_\_\_\_\_



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:

Georgia Power Project #:

WO#: 92625212

PM: NMG

Due Date: 10/04/22

CLIENT: GA-GA Power

Courier:  Commercial  Fed Ex  Pace  UPS  USPS  Other:  Client

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 4/21/22 AF

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: 3.6 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): 3.6

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.
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: W G		
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#: 92625212

PM: NMG

Due Date: 10/04/22

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)	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		1																									
2																														
3																														
4																														
5																														
6																														
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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 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.

<b>Section A</b> Required Client Information: Company: Georgia Power - Coal Combustion Residuals Address: 2480 Manor Road Atlanta, GA 30339 Email: laudacker@southemco.com Phone: (478) 620-6178 Requested Due Date: 10 Dec 1A1	<b>Section B</b> Required Project Information: Report To: Lauren Coker Copy To: Golder Project Name: Plant 1&2 AP 1, 2, 3&4 Supplemental Web Network Project #: CL16849622	<b>Section C</b> Invoice Information: Attention: schinoco@southemco.com Company Name: Address: State / Location: GA Regulatory Agency: State / Location: GA
--	--	--

ITEM #	BATCH	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS							Y/N	Requested Analytic Filtered (Y/N)	Residual Chlorine (Y/N)	pH = 7.13 Fec = 4.5 mg/L 5212 5189
							Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol				
1	B-1230	WG	G	9/20/2022	15:25		6	3	3								
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	

ADDITIONAL COMMENTS: RELINQUISHED BY / AFFILIATION: <i>M. J. Schinoco</i> DATE: 09/20/22 TIME: 15:05 ACCEPTED BY / AFFILIATION: <i>M. J. Schinoco</i> DATE: 9/21/22 TIME: 15:05	SAMPLE CONDITIONS: TEMP in C: Received on ice (Y/N): Custody Sealed Cooler (Y/N): Samples Intact (Y/N):
---	---

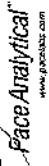
DATE Signed: \_\_\_\_\_



# Quality Control Sample Performance Assessment

*Analyst Must Manually Enter All Fields Highlighted in Yellow.*

Test: Ra-226  
Analyst: RMS  
Date: 10/5/2022  
Worksheet: 69144  
Matrix: DW



Method Blank Assessment	
MB Sample ID	2605313
MB concentration:	-0.001
M/B Counting Uncertainty:	0.049
MB MDC:	0.149
MB Numerical Performance Indicator:	-0.03
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
LCSD (Y or N)?	Y
Count Date:	10/13/2022
Spike I.D.:	LCSD89144
Decay Corrected Spike Concentration (pCi/ml):	19.033
Volume Used (mL):	24.023
Aliquot Volume (L, g, F):	0.10
Target Conc. (pCi/L, g, F):	0.504
Uncertainty (Calculated):	4.770
Result (pCi/L, g, F):	0.057
LCSD/LCSD Counting Uncertainty (pCi/L, g, F):	5.296
Numerical Performance Indicator:	0.551
Percent Recovery:	1.86
Status vs Numerical Indicator:	111.03%
Status vs Recovery:	N/A
Upper % Recovery Limits:	Pass
Lower % Recovery Limits:	125%
	75%

Duplicate Sample Assessment	
Sample I.D.:	2605313
Duplicate Sample I.D.:	62625212004
Sample Result (pCi/L, g, F):	-0.001
Sample Duplicate Result (pCi/L, g, F):	0.049
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.005
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.072
Are sample and/or duplicate results below RL?	See Below #
Duplicate Numerical Performance Indicator:	-0.127
Duplicate Percent Recoveries) Duplicate RPD:	282.60%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Fail**
% RPD Limit:	25%

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):	
M/S 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:	
Sample Matrix Spike Duplicate 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 Duplicate Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Counting Uncertainty (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:	

## Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

~~Batch must not be processed due to unacceptable precision.~~ N/A  
VAM 10/13/22  
VAM 10/13/22  
VAM 10/13/22

*[Handwritten signature]*

VAM 10/13/22

# Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226  
Analyst: RMS  
Date: 9/26/2022  
Worksheet: 68985  
Matrix: DW

Method Blank Assessment	
MB Sample ID	2594503
MB Concentration:	0.042
MB Counting Uncertainty:	0.070
MB MDC:	0.157
MB Numerical Performance Indicator:	1.18
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
LCSID (Y or N)?	Y
LCSID68985	10/7/2022
LCSID68985	10/7/2022
Count Date:	19-033
Spike ID:	24.023
Decay Corrected Spike Concentration (pCi/mL):	0.10
Volume Used (mL):	0.501
Aliquot Volume (L, g, F):	4.756
Target Conc. (pCi/L, g, F):	0.057
Uncertainty (Calculated):	5.097
Result (pCi/L, g, F):	1.35
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	107.17%
Numerical Performance Indicator:	N/A
Percent Recovery:	Pass
Status vs Numerical Indicator:	Pass
Upper % Recovery Limits:	125%
Lower % Recovery Limits:	75%

Duplicate Sample Assessment	
Sample I.D.:	2594503
Duplicate Sample I.D.:	92625631020
Sample Result (pCi/L, g, F):	0.042
Duplicate Result (pCi/L, g, F):	0.070
Sample Result Counting Uncertainty (pCi/L, g, F):	0.033
Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.065
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	See Below ##
Duplicate Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.192
Are sample and/or duplicate results below RL?	25.02%
Duplicate Numerical Performance Indicator:	N/A
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	Fail***
Duplicate Status vs Numerical Indicator:	25%
Duplicate Status vs RPD:	
% RPD Limit:	

Sample Matrix Spike Control Assessment	
Sample Collection Date:	MS/MSD 1
Sample I.D.:	MS/MSD 2
Sample MS I.D.:	
Sample MSD 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:	
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.:	
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:

\*\*\*Batch must be re-assessed due to unacceptable precision. N/A

VAM 10/7/22

VAM 10/7/22

# Quality Control Sample Performance Assessment



*Analyst Must Manually Enter All Fields Highlighted in Yellow.*

Test: Ra-226  
 Analyst: RMS  
 Date: 9/29/2022  
 Worklist: 69056  
 Matrix: DW

Method Blank Assessment	
MB Sample ID	2599417
MB concentration:	0.066
MB Counting Uncertainty:	0.104
MB MDC:	0.234
MB Numerical Performance Indicator:	1.23
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
Count Date:	10/11/2022
Spike I.D.:	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.023
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.503
Target Conc. (pCi/L, g, F):	4.772
Uncertainty (Calculated):	0.057
Result (pCi/L, g, F):	4.561
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.462
Numerical Performance Indicator:	-0.89
Status vs Numerical Indicator:	95.59%
Upper % Recovery Limits:	N/A
Lower % Recovery Limits:	Pass
	125%
	75%

Duplicate Sample Assessment	
Sample I.D.:	LCS69056
Duplicate Sample I.D.:	LCS69056
Sample Result (pCi/L, g, F):	4.591
Sample Duplicate Result (pCi/L, g, F):	0.462
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	5.048
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.491
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	-1.414
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	10.03%
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 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 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:

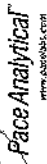
## Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

*[Handwritten Signature]*

10/11/22

# Quality Control Sample Performance Assessment



Test: Ra-226  
 Analyst: RMS  
 Date: 9/30/2022  
 Worklist: 69072  
 Matrix: DW

Analyst **Must Manually Enter All Fields Highlighted in Yellow.**

Method Blank Assessment	
MB Sample ID	2600355
MB concentration:	0.044
M/B Counting Uncertainty:	0.069
MB MDC:	0.152
MB Numerical Performance Indicator:	1.24
MB Status vs. Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment		LCS# (Y or N)?	Y
Count Date:	10/12/2022	LCS#69072	10/12/2022
Spike I.D.:	19-033	LCS#69072	10/12/2022
Decay Corrected Spike Concentration (pCi/mL):	24.023		
Volume Used (mL):	0.10		
Aliquot Volume (L, g, F):	0.505		
Target Conc. (pCi/L, g, F):	4.758		
Uncertainty (Calculated):	0.057		
Result (pCi/L, g, F):	5.119		
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.487		
Numerical Performance Indicator:	1.44		
Percent Recovery:	107.59%		
Status vs Numerical Indicator:	N/A		
Status vs Recovery:	Pass		
Upper % Recovery Limits:	125%		
Lower % Recovery Limits:	75%		

Duplicate Sample Assessment		LCS# (Y or N)?	Y
Sample I.D.:	2600355	LCS#69072	10/12/2022
Duplicate Sample I.D.:	92624394013	LCS#69072	10/12/2022
Sample Result (pCi/L, g, F):	0.044		
Sample Result Counting Uncertainty (pCi/L, g, F):	0.069		
Sample Duplicate Result (pCi/L, g, F):	0.020		
Sample Duplicate Counting Uncertainty (pCi/L, g, F):	0.055		
Are sample and/or duplicate results below RL?	NO		
Duplicate Numerical Performance Indicator:	1.179		
Duplicate Percent Recoveries:	73.02%		
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.:			
M/MSD Decay Corrected Spike Concentration (pCi/mL):			
Spike Volume Used in MSD (mL):			
MS Aliquot (L, g, F):			
MSD Aliquot (L, g, F):			
MS Target Conc. (pCi/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:			
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:			
M/MSD Upper % Recovery Limits:			
M/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:	
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:

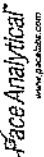
\*\*Batch must be resubmitted due to unacceptable precision: N/A

*[Handwritten Signature]*

VAM 10/13/22

VAM 10/13/22

# Quality Control Sample Performance Assessment



Test: Ra-228  
 Analyst: VAL  
 Date: 9/28/2022  
 Worklist: 69055  
 Matrix: WT

**Method Blank Assessment**

MB Sample ID	2599416
MS concentration:	0.037
MB 2 Sigma CSU:	0.270
MB MDC:	0.626
MB Numerical Performance Indicator:	0.27
MB Status vs Numerical Indicator:	Pass
MB Status vs MDC:	Pass

**Laboratory Control Sample Assessment**

Count Date:	LCS/D69055	Y
Spike I.D.:	10/4/2022	LCS/D69055
Decay Corrected Spike Concentration (pCi/mL):	22-029	10/4/2022
Volume Used (mL):	19.874	19.874
Aliquot Volume (L, g, F):	0.20	0.20
Target Conc. (pCi/L, g, F):	0.805	0.805
Uncertainty (Calculated):	4.933	4.940
Result (pCi/L, g, F):	0.355	0.356
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	4.169	4.442
Numerical Performance Indicator:	0.917	0.977
Percent Recovery:	-1.48	-0.94
Status vs Numerical Indicator:	84.92%	89.91%
Upper % Recovery Limits:	N/A	N/A
Lower % Recovery Limits:	Pass	Pass
	135%	135%
	60%	60%

**Duplicate Sample Assessment**

Sample I.D.:	LCS69055
Duplicate Sample I.D.:	LCS/D69055
Sample Result (pCi/L, g, F):	4.189
Sample Duplicate Result (pCi/L, g, F):	0.917
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	4.442
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.977
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	-0.370
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	5.70%
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 and initials*

Analyst Must Manually Enter All Fields Highlighted in Yellow.

**Sample Matrix Spike Control Assessment**

Sample I.D.:	MS/MSD 1
Sample MS I.D.:	MS/MSD 2
Sample MSD I.D.:	
Sample Collection Date:	
MS/MSD Decay Corrected Spike Concentration (pCi/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 Collection Date:	
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: 9/26/2022  
Worklist: 68983  
Matrix: WT

Method Blank Assessment	
MB Sample ID	2594500
MB concentration:	-0.343
M/B 2 Sigma CSU:	0.286
MB MDC:	0.703
MB Numerical Performance Indicator:	-2.52
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
Count Date:	10/4/2022
Spike I.D.:	22-029
Decay Corrected Spike Concentration (pCi/mL):	19.873
Volume Used (mL):	0.20
Aliquot Volume (L, g, F):	0.810
Target Conc. (pCi/L, g, F):	4.966
Uncertainty (Calculated):	0.357
Result (pCi/L, g, F):	3.835
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.866
Numerical Performance Indicator:	-2.28
Percent Recovery:	77.37%
Status vs Numerical Indicator:	N/A
Upper % Recovery Limits:	135%
Lower % Recovery Limits:	60%

Duplicate Sample Assessment	
Sample I.D.:	LCS68683
Duplicate Sample I.D.:	LCSD68983
Sample Result (pCi/L, g, F):	3.835
Sample Duplicate Result (pCi/L, g, F):	0.896
Sample Result 2 Sigma CSU (pCi/L, g, F):	3.327
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.797
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	0.830
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	13.22%
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: 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 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:		

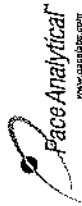
Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample I.D.: Sample MS I.D.: Sample MSD I.D.: Sample Matrix Spike Result: Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F): Duplicate Numerical Performance Indicator: (Based on the Percent Recoveries) MS/MSD Duplicate RPD: MS/MSD Duplicate Status vs Numerical Indicator: MS/MSD Duplicate Status vs RPD: % RPD Limit:

*Handwritten signatures and initials*

# Quality Control Sample Performance Assessment

Analyst must manually enter all fields highlighted in yellow.

Test: Ra-228  
Analyst: VAL  
Date: 9/30/2022  
Worklist: 69073  
Matrix: WT



**Method Blank Assessment**

MB Sample ID	2800360
MB concentration:	0.590
MB 2 Sigma CSU:	0.382
MB MDC:	0.710
MB Numerical Performance Indicator:	3.02
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	Pass

**Laboratory Control Sample Assessment**

Count Date:	LCSD (Y or N)?	Y
10/10/2022	LCSD69073	
22-029	19.834	0.20
19.834	0.810	4.895
0.20	0.352	6.766
0.808	1.419	2.51
4.907	138.22%	138.22%
0.353	Warning	Warning
6.528	Fail High**	Fail High**
1.362	135%	135%
2.23	60%	60%
133.05%		
N/A		
Pass		
135%		
60%		

**Duplicate Sample Assessment**

Sample I.D.:	LC69073
Duplicate Sample I.D.:	LCSD69073
Sample Result (pCi/L, g, F):	6.528
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.382
Sample Duplicate Result (pCi/L, g, F):	6.766
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.419
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	-0.235
(Based on the LCSD/LCSD Percent Recoveries) Duplicate RPD:	3.81%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	Pass
% RPD Limit:	35%

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 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>MS Numerical Performance Indicator:</p> <p>MS 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**

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:	Sample Matrix Spike Duplicate Result:
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:	% RPD Limit:

# Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

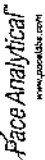
if the lowest activity sample in the batch is greater than ten times the blank value, MB activity is acceptable, otherwise this batch must be reprocessed - 9/30/22 MB activity < MDC, Pass

if all sample results are below MDC, the batch is acceptable, otherwise this batch must be reprocessed due to LCSD failure.

NI < 3 acceptable for LCSD

9/30/22

# Quality Control Sample Performance Assessment



Analyst **Must Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-228  
Analyst: VAL  
Date: 10/5/2022  
Worklist: 69145  
Matrix: WT

**Method Blank Assessment**

MB Sample ID	2605315
MB concentration:	0.660
MB 2 Sigma CSU:	0.393
MB MDC:	0.716
MB Numerical Performance Indicator:	3.29
MB Status vs Numerical Indicator:	Fail
MB Status vs. MDC:	Pass

**Laboratory Control Sample Assessment**

Count Date:	LCS#	Y
10/11/2022	LCS069145	
22-029	10/11/2022	
19.827	19.827	0.20
0.807	0.807	4.922
4.914	4.914	0.354
4.396	4.396	0.980
1.047	1.047	-0.50
94.32%	94.32%	N/A
N/A	N/A	Pass
135%	135%	60%
60%	60%	60%

**Duplicate Sample Assessment**

Sample I.D.:	LCS069145	Enter Duplicate
Duplicate Sample I.D.:	LCS089145	sample IDs if
Sample Result (pCi/L, g, F):	4.634	other than
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.047	LCS#LCS# in
Sample Duplicate Result (pCi/L, g, F):	4.396	the space below.
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.980	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.326	
Duplicate Status vs Numerical Indicator:	5.45%	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	35%	

**Sample Matrix Spike Control Assessment**

Sample Collection Date:	Sample I.D.	MS/MSD 1	MS/MSD 2
Sample MS I.D.	Sample MSD 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):		
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:		
Sample Matrix Spike Duplicate Result:	MS Numerical Performance Indicator:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	MS Percent Recovery:		
MS Numerical Performance Indicator:	MSD Percent Recovery:		
MS Status vs Numerical Indicator:	MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:	MS/MSD Upper % Recovery Limits:		
MS/MSD Upper % Recovery Limits:	MS/MSD Lower % 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 2 Sigma CSU (pCi/L, g, F):	Duplicate Numerical Performance Indicator:	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	Duplicate Status vs Numerical Indicator:	
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	MS/MSD Duplicate Status vs RPD:	
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: *4.634 low activity sample in this batch is greater than ten times the blank value. The blank is acceptable, otherwise this batch would be re-processed.*

*pub activity < mdc, Pass*  
*10/12/22*

*10/13/22*  
*10/12/22*



September 23, 2022

Andrea McClure  
WSP/Golder  
5170 Peachtree Road  
Building 100, Suite 300  
Atlanta, GA 30341

RE: Project: Plant McDonough Supplemental  
Pace Project No.: 92624826

Dear Andrea McClure:

Enclosed are the analytical results for sample(s) received by the laboratory on September 09, 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: Joju Abraham, Georgia Power-CCR  
Stephen Benda, Southern Company  
Noelia Gangi, Georgia Power  
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.  
Michael Smilley, Georgia Power  
Yong Cheng Soo, WSP/Golder  
Tina Sullivan, ERM



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Plant McDonough Supplemental

Pace Project No.: 92624826

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### **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

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### **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

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### **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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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Plant McDonough Supplemental  
Pace Project No.: 92624826

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Lab ID	Sample ID	Matrix	Date Collected	Date Received
92624826001	B-116D	Water	09/08/22 12:42	09/09/22 15:50
92624826002	DUP-2	Water	09/08/22 00:00	09/09/22 15:50
92624826003	B-118	Water	09/09/22 12:00	09/09/22 15:50

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Plant McDonough Supplemental  
Pace Project No.: 92624826

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92624826001	B-116D	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92624826002	DUP-2	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92624826003	B-118	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		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: Plant McDonough Supplemental  
Pace Project No.: 92624826

Sample: B-116D		Lab ID: 92624826001		Collected: 09/08/22 12:42		Received: 09/09/22 15:50		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		09/09/22 17:41		
pH	<b>5.97</b>	Std. Units			1		09/09/22 17:41		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	<b>0.087</b>	mg/L	0.040	0.025	1	09/21/22 12:19	09/21/22 21:29	7439-89-6	
Sodium	<b>7.7</b>	mg/L	1.0	0.58	1	09/21/22 12:19	09/21/22 21:29	7440-23-5	
Calcium	<b>10.1</b>	mg/L	1.0	0.12	1	09/21/22 12:19	09/21/22 21:29	7440-70-2	
Magnesium	<b>3.4</b>	mg/L	0.050	0.012	1	09/21/22 12:19	09/21/22 21:29	7439-95-4	
Potassium	<b>2.2</b>	mg/L	0.20	0.15	1	09/21/22 12:19	09/23/22 11:26	7440-09-7	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/21/22 17:50	09/22/22 19:20	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/21/22 17:50	09/22/22 19:20	7440-38-2	
Barium	<b>0.017</b>	mg/L	0.0050	0.00067	1	09/21/22 17:50	09/22/22 19:20	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/21/22 17:50	09/22/22 19:20	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/21/22 17:50	09/22/22 19:20	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/21/22 17:50	09/22/22 19:20	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/21/22 17:50	09/22/22 19:20	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/21/22 17:50	09/22/22 19:20	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/21/22 17:50	09/22/22 19:20	7439-92-1	
Lithium	<b>0.0054J</b>	mg/L	0.030	0.00073	1	09/21/22 17:50	09/22/22 19:20	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/21/22 17:50	09/22/22 19:20	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/21/22 17:50	09/22/22 19:20	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/21/22 17:50	09/22/22 19:20	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/22/22 14:00	09/22/22 17:53	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>82.0</b>	mg/L	25.0	10.0	1		09/14/22 11:33		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	<b>50.3</b>	mg/L	5.0	5.0	1		09/14/22 17:56		
Alkalinity, Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	5.0	1		09/14/22 17:56		
Alkalinity, Total as CaCO <sub>3</sub>	<b>50.3</b>	mg/L	5.0	5.0	1		09/14/22 17:56		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>2.4</b>	mg/L	1.0	0.60	1		09/13/22 19:57	16887-00-6	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Plant McDonough Supplemental

Pace Project No.: 92624826

**Sample: B-116D**      **Lab ID: 92624826001**      Collected: 09/08/22 12:42      Received: 09/09/22 15:50      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	<b>0.065J</b>	mg/L	0.10	0.050	1		09/13/22 19:57	16984-48-8	
Sulfate	<b>0.54J</b>	mg/L	1.0	0.50	1		09/13/22 19:57	14808-79-8	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Plant McDonough Supplemental  
Pace Project No.: 92624826

**Sample: DUP-2**      **Lab ID: 92624826002**      Collected: 09/08/22 00:00      Received: 09/09/22 15:50      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	0.10	mg/L	0.040	0.025	1	09/21/22 12:19	09/21/22 21:34	7439-89-6	
Sodium	8.1	mg/L	1.0	0.58	1	09/21/22 12:19	09/21/22 21:34	7440-23-5	
Calcium	10.6	mg/L	1.0	0.12	1	09/21/22 12:19	09/21/22 21:34	7440-70-2	
Magnesium	3.6	mg/L	0.050	0.012	1	09/21/22 12:19	09/21/22 21:34	7439-95-4	
Potassium	2.5	mg/L	0.20	0.15	1	09/21/22 12:19	09/23/22 11:31	7440-09-7	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/21/22 17:50	09/22/22 19:38	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/21/22 17:50	09/22/22 19:38	7440-38-2	
Barium	0.017	mg/L	0.0050	0.00067	1	09/21/22 17:50	09/22/22 19:38	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/21/22 17:50	09/22/22 19:38	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/21/22 17:50	09/22/22 19:38	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/21/22 17:50	09/22/22 19:38	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/21/22 17:50	09/22/22 19:38	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/21/22 17:50	09/22/22 19:38	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/21/22 17:50	09/22/22 19:38	7439-92-1	
Lithium	0.0056J	mg/L	0.030	0.00073	1	09/21/22 17:50	09/22/22 19:38	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/21/22 17:50	09/22/22 19:38	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/21/22 17:50	09/22/22 19:38	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/21/22 17:50	09/22/22 19:38	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A    Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/22/22 14:00	09/22/22 17:56	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	87.0	mg/L	25.0	10.0	1		09/14/22 11:33		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	50.8	mg/L	5.0	5.0	1		09/14/22 18:03		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/14/22 18:03		
Alkalinity, Total as CaCO3	50.8	mg/L	5.0	5.0	1		09/14/22 18:03		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	2.4	mg/L	1.0	0.60	1		09/13/22 20:12	16887-00-6	
Fluoride	0.065J	mg/L	0.10	0.050	1		09/13/22 20:12	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		09/13/22 20:12	14808-79-8	

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## ANALYTICAL RESULTS

Project: Plant McDonough Supplemental  
Pace Project No.: 92624826

**Sample: B-118**      **Lab ID: 92624826003**      Collected: 09/09/22 12:00      Received: 09/09/22 15:50      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		09/09/22 17:41		
pH	<b>6.49</b>	Std. Units			1		09/09/22 17:41		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D      Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	<b>2.3</b>	mg/L	0.20	0.15	1	09/21/22 12:19	09/22/22 21:25	7440-09-7	
Iron	<b>0.14</b>	mg/L	0.040	0.025	1	09/21/22 12:19	09/21/22 21:38	7439-89-6	
Sodium	<b>10.0</b>	mg/L	1.0	0.58	1	09/21/22 12:19	09/21/22 21:38	7440-23-5	
Calcium	<b>5.2</b>	mg/L	1.0	0.12	1	09/21/22 12:19	09/21/22 21:38	7440-70-2	
Magnesium	<b>2.0</b>	mg/L	0.050	0.012	1	09/21/22 12:19	09/21/22 21:38	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B      Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/21/22 17:50	09/22/22 19:44	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/21/22 17:50	09/22/22 19:44	7440-38-2	
Barium	<b>0.022</b>	mg/L	0.0050	0.00067	1	09/21/22 17:50	09/22/22 19:44	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/21/22 17:50	09/22/22 19:44	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/21/22 17:50	09/22/22 19:44	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/21/22 17:50	09/22/22 19:44	7440-43-9	
Chromium	<b>0.0017J</b>	mg/L	0.0050	0.0011	1	09/21/22 17:50	09/22/22 19:44	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/21/22 17:50	09/22/22 19:44	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/21/22 17:50	09/22/22 19:44	7439-92-1	
Lithium	<b>0.0024J</b>	mg/L	0.030	0.00073	1	09/21/22 17:50	09/22/22 19:44	7439-93-2	
Molybdenum	<b>0.0047J</b>	mg/L	0.010	0.00074	1	09/21/22 17:50	09/22/22 19:44	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/21/22 17:50	09/22/22 19:44	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/21/22 17:50	09/22/22 19:44	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A      Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/22/22 14:00	09/22/22 17:59	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>78.0</b>	mg/L	25.0	10.0	1		09/14/22 11:36		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	<b>35.2</b>	mg/L	5.0	5.0	1		09/14/22 18:10		
Alkalinity, Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	5.0	1		09/14/22 18:10		
Alkalinity, Total as CaCO <sub>3</sub>	<b>35.2</b>	mg/L	5.0	5.0	1		09/14/22 18:10		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	<b>3.1</b>	mg/L	1.0	0.60	1		09/13/22 20:27	16887-00-6	

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### ANALYTICAL RESULTS

Project: Plant McDonough Supplemental

Pace Project No.: 92624826

**Sample: B-118**      **Lab ID: 92624826003**      Collected: 09/09/22 12:00      Received: 09/09/22 15:50      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	<b>0.080J</b>	mg/L	0.10	0.050	1		09/13/22 20:27	16984-48-8	
Sulfate	<b>2.8</b>	mg/L	1.0	0.50	1		09/13/22 20:27	14808-79-8	

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**QUALITY CONTROL DATA**

Project: Plant McDonough Supplemental

Pace Project No.: 92624826

QC Batch:	724698	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples:	92624826001, 92624826002, 92624826003		

METHOD BLANK: 3775652 Matrix: Water

Associated Lab Samples: 92624826001, 92624826002, 92624826003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/21/22 19:48	
Iron	mg/L	ND	0.040	0.025	09/21/22 19:48	
Magnesium	mg/L	ND	0.050	0.012	09/21/22 19:48	
Potassium	mg/L	ND	0.20	0.15	09/21/22 19:48	
Sodium	mg/L	ND	1.0	0.58	09/21/22 19:48	

LABORATORY CONTROL SAMPLE: 3775653

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	101	80-120	
Magnesium	mg/L	1	1.0	104	80-120	
Potassium	mg/L	1	1.0	103	80-120	
Sodium	mg/L	1	1.1	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3775654 3775655

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92624373001 Result	Spike Conc.	Spike Conc.	Result						
Calcium	mg/L	73.2	1	1	71.7	72.8	-152	-37	75-125	2	20 M1
Iron	mg/L	1.9	1	1	2.9	2.9	101	100	75-125	0	20
Magnesium	mg/L	25.2	1	1	25.7	25.7	49	52	75-125	0	20 M1
Potassium	mg/L	8.2	1	1	9.0	9.1	75	90	75-125	2	20
Sodium	mg/L	19.9	1	1	20.3	20.6	38	68	75-125	1	20 M1

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**REPORT OF LABORATORY ANALYSIS**

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### QUALITY CONTROL DATA

Project: Plant McDonough Supplemental  
Pace Project No.: 92624826

QC Batch: 724857 Analysis Method: EPA 6020B  
QC Batch Method: EPA 3005A Analysis Description: 6020 MET  
Laboratory: Pace Analytical Services - Peachtree Corners, GA  
Associated Lab Samples: 92624826001, 92624826002, 92624826003

METHOD BLANK: 3776475 Matrix: Water  
Associated Lab Samples: 92624826001, 92624826002, 92624826003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/22/22 16:16	
Arsenic	mg/L	ND	0.0050	0.0022	09/22/22 16:16	
Barium	mg/L	ND	0.0050	0.00067	09/22/22 16:16	
Beryllium	mg/L	ND	0.00050	0.000054	09/22/22 16:16	
Boron	mg/L	ND	0.040	0.0086	09/22/22 16:16	
Cadmium	mg/L	ND	0.00050	0.00011	09/22/22 16:16	
Chromium	mg/L	ND	0.0050	0.0011	09/22/22 16:16	
Cobalt	mg/L	ND	0.0050	0.00039	09/22/22 16:16	
Lead	mg/L	ND	0.0010	0.00089	09/22/22 16:16	
Lithium	mg/L	ND	0.030	0.00073	09/22/22 16:16	
Molybdenum	mg/L	ND	0.010	0.00074	09/22/22 16:16	
Selenium	mg/L	ND	0.0050	0.0014	09/22/22 16:16	
Thallium	mg/L	ND	0.0010	0.00018	09/22/22 16:16	

LABORATORY CONTROL SAMPLE: 3776476

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	0.096	96	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	100	80-120	
Cadmium	mg/L	0.1	0.098	98	80-120	
Chromium	mg/L	0.1	0.098	98	80-120	
Cobalt	mg/L	0.1	0.097	97	80-120	
Lead	mg/L	0.1	0.097	97	80-120	
Lithium	mg/L	0.1	0.098	98	80-120	
Molybdenum	mg/L	0.1	0.10	100	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: 3776477 3776478

Parameter	Units	92622406010 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Antimony	mg/L	0.0011J	0.1	0.10	0.1	0.10	99	104	75-125	5	20	
Arsenic	mg/L	ND	0.1	0.093	0.1	0.098	93	98	75-125	5	20	

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**QUALITY CONTROL DATA**

Project: Plant McDonough Supplemental

Pace Project No.: 92624826

Parameter	Units	92622406010		3776477		3776478		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec							
Barium	mg/L	0.010	0.1	0.1	0.10	0.11	89	96	75-125	6	20			
Beryllium	mg/L	ND	0.1	0.1	0.096	0.097	96	97	75-125	1	20			
Boron	mg/L	0.012J	1	1	1.0	1.0	100	103	75-125	3	20			
Cadmium	mg/L	ND	0.1	0.1	0.094	0.095	94	95	75-125	1	20			
Chromium	mg/L	0.0066	0.1	0.1	0.10	0.10	96	96	75-125	0	20			
Cobalt	mg/L	ND	0.1	0.1	0.096	0.096	96	96	75-125	0	20			
Lead	mg/L	ND	0.1	0.1	0.094	0.093	94	92	75-125	2	20			
Lithium	mg/L	0.0012J	0.1	0.1	0.096	0.098	95	97	75-125	2	20			
Molybdenum	mg/L	ND	0.1	0.1	0.099	0.099	99	99	75-125	0	20			
Selenium	mg/L	ND	0.1	0.1	0.093	0.095	93	95	75-125	2	20			
Thallium	mg/L	ND	0.1	0.1	0.095	0.095	95	95	75-125	0	20			

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### QUALITY CONTROL DATA

Project: Plant McDonough Supplemental  
Pace Project No.: 92624826

QC Batch: 724426 Analysis Method: EPA 7470A  
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury  
Laboratory: Pace Analytical Services - Peachtree Corners, GA  
Associated Lab Samples: 92624826001, 92624826002, 92624826003

METHOD BLANK: 3774367 Matrix: Water  
Associated Lab Samples: 92624826001, 92624826002, 92624826003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	09/22/22 17:16	

LABORATORY CONTROL SAMPLE: 3774368

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3774369 3774370

Parameter	Units	92624373001		3774370		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	0.00014J	0.0025	0.0025	0.0025	93	93	75-125	1	20	

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### QUALITY CONTROL DATA

Project: Plant McDonough Supplemental  
Pace Project No.: 92624826

QC Batch: 722886 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: 92624826001, 92624826002, 92624826003

METHOD BLANK: 3766455 Matrix: Water  
Associated Lab Samples: 92624826001, 92624826002, 92624826003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	10.0	09/14/22 11:30	

LABORATORY CONTROL SAMPLE: 3766456

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	384	96	80-120	

SAMPLE DUPLICATE: 3766458

Parameter	Units	92624840004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	620000 ug/L	680	9	10	

SAMPLE DUPLICATE: 3767354

Parameter	Units	92624372007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	252	297	16	10	R1

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### QUALITY CONTROL DATA

Project: Plant McDonough Supplemental  
Pace Project No.: 92624826

QC Batch: 723206 Analysis Method: SM 2320B-2011  
QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity  
Laboratory: Pace Analytical Services - Asheville  
Associated Lab Samples: 92624826001, 92624826002, 92624826003

METHOD BLANK: 3768028 Matrix: Water  
Associated Lab Samples: 92624826001, 92624826002, 92624826003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	09/14/22 14:56	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	09/14/22 14:56	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	09/14/22 14:56	

LABORATORY CONTROL SAMPLE: 3768029

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.2	100	80-120	

LABORATORY CONTROL SAMPLE: 3768030

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.8	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3768031 3768032

Parameter	Units	92625359004		3768031		3768032		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec				
Alkalinity, Total as CaCO3	mg/L	324	50	50	353	349	58	51	80-120	1	25 M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3768033 3768034

Parameter	Units	92624372011		3768033		3768034		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec				
Alkalinity, Total as CaCO3	mg/L	134	50	50	193	185	118	102	80-120	4	25

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### QUALITY CONTROL DATA

Project: Plant McDonough Supplemental  
Pace Project No.: 92624826

QC Batch: 722843 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: 92624826001, 92624826002, 92624826003

METHOD BLANK: 3766296 Matrix: Water  
Associated Lab Samples: 92624826001, 92624826002, 92624826003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/13/22 12:35	
Fluoride	mg/L	ND	0.10	0.050	09/13/22 12:35	
Sulfate	mg/L	ND	1.0	0.50	09/13/22 12:35	

LABORATORY CONTROL SAMPLE: 3766297

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	100	90-110	
Sulfate	mg/L	50	50.8	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3766298 3766299

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92624945004 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	938	50	50	975	975	73	74	90-110	0	10	M1	
Fluoride	mg/L	ND	2.5	2.5	3.3J	3.8J	132	151	90-110		10	M1	
Sulfate	mg/L	3180	50	50	3170	3160	-30	-43	90-110	0	10	M1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3766300 3766301

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92624372011 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	5.4	50	50	57.1	58.0	103	105	90-110	2	10		
Fluoride	mg/L	0.082J	2.5	2.5	2.4	2.4	92	92	90-110	0	10		
Sulfate	mg/L	96.6	50	50	150	153	106	113	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: Plant McDonough Supplemental  
Pace Project No.: 92624826

---

### 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: Plant McDonough Supplemental  
Pace Project No.: 92624826

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92624826001	B-116D				
92624826003	B-118				
92624826001	B-116D	EPA 3010A	724698	EPA 6010D	724853
92624826002	DUP-2	EPA 3010A	724698	EPA 6010D	724853
92624826003	B-118	EPA 3010A	724698	EPA 6010D	724853
92624826001	B-116D	EPA 3005A	724857	EPA 6020B	724980
92624826002	DUP-2	EPA 3005A	724857	EPA 6020B	724980
92624826003	B-118	EPA 3005A	724857	EPA 6020B	724980
92624826001	B-116D	EPA 7470A	724426	EPA 7470A	725130
92624826002	DUP-2	EPA 7470A	724426	EPA 7470A	725130
92624826003	B-118	EPA 7470A	724426	EPA 7470A	725130
92624826001	B-116D	SM 2540C-2015	722886		
92624826002	DUP-2	SM 2540C-2015	722886		
92624826003	B-118	SM 2540C-2015	722886		
92624826001	B-116D	SM 2320B-2011	723206		
92624826002	DUP-2	SM 2320B-2011	723206		
92624826003	B-118	SM 2320B-2011	723206		
92624826001	B-116D	EPA 300.0 Rev 2.1 1993	722843		
92624826002	DUP-2	EPA 300.0 Rev 2.1 1993	722843		
92624826003	B-118	EPA 300.0 Rev 2.1 1993	722843		

### 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#: 92624826**



Courier:  Fed Ex  UPS  USPS  Client  
 Commercial  Pace  Other: \_\_\_\_\_

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: *9/9/22*

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?  Yes  No  N/A *JM*

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

Cooler Temp: *2.4* 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): *2.4*

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 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>WJ</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.

Exceptions: VOA, Coliform, TOC, OI 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#: 92624826

PM: NMG

Due Date: 09/23/22

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 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)-VP-H/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)			
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 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 Warner Road  
 Atlanta, GA 30338  
 Email: JBUCKER@SOUTHERNCO.COM  
 Phone: (478) 820-6176  
 Requested Due Date: 10 Day TAT

### Section B Required Project Information:

Report To: Lauren Collier  
 Copy To: Collier  
 Purchase Order #: P101694952  
 Project Name: Plant McDonough Supplemental Sampling Network  
 Project #: GL1694952

### Section C Invoice Information:

Attention: scsincvcs@southernco.com  
 Company Name: Southern Company  
 Address: [Blank]  
 Price Profile #: [Blank]  
 Price Project Manager: Nicole D'Onofrio  
 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												
										App III/IV Total Metals	Cl, F, SO4, TDS	Radium 226/228	Mg, Na, K	CO3+HCO2	Fe Total, Fe 3+	Residual Chlorine (Y/N)	PH	FA2	Fa2			
1	B-1160	WG	G	G	9/6/2022	12:42		6	3	3	X	X	X	X	X	X						
2	DUP-2	WG	G	G	9/6/2022			6	3	3	X	X	X	X	X	X						
3	B-118	WG	G	G	9/6/2022	12:00		8	3	5	X	X	X	X	X	X						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						

ADDITIONAL COMMENTS: [Blank]

RELINQUISHED BY / AFFILIATION: Mark Miller / Collier

DATE: 09/10/22

TIME: 15:50

ACCEPTED BY / AFFILIATION: *Carole Spivey* / Collier

DATE: 09/12/22

TIME: 15:50

TEMP in C: [Blank]

Received on Ice (Y/N): [Blank]

Custody Sealed Cooler (Y/N): [Blank]

Samples Intact (Y/N): [Blank]

DATE Signed: [Blank]

November 04, 2022

Andrea McClure  
WSP/Golder  
5170 Peachtree Road  
Building 100, Suite 300  
Atlanta, GA 30341

RE: Project: McDonough Supplemental Rads-Revised Report  
Pace Project No.: 92624832

Dear Andrea McClure:

Enclosed are the analytical results for sample(s) received by the laboratory on September 09, 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

Revision 1: Issued on 11/4/22 to include Radium QC Sheets.

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: Joju Abraham, Georgia Power-CCR  
Stephen Benda, Southern Company  
Noelia Gangi, Georgia Power  
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.  
Michael Smilley, Georgia Power  
Yong Cheng Soo, WSP/Golder  
Tina Sullivan, ERM



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: McDonough Supplemental Rads-Revised Report  
Pace Project No.: 92624832

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### **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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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: McDonough Supplemental Rads-Revised Report  
Pace Project No.: 92624832

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92624832001	B-116D	Water	09/08/22 12:42	09/09/22 15:50
92624832002	DUP-2	Water	09/08/22 00:00	09/09/22 15:50
92624832003	B-118	Water	09/09/22 12:00	09/09/22 15:50

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: McDonough Supplemental Rads-Revised Report

Pace Project No.: 92624832

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92624832001	B-116D	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92624832002	DUP-2	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92624832003	B-118	EPA 9315	RMS	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 Rads-Revised Report

Pace Project No.: 92624832

**Sample: B-116D**      **Lab ID: 92624832001**      Collected: 09/08/22 12:42      Received: 09/09/22 15:50      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	<b>0.124 ± 0.0932 (0.143)</b> <b>C:94% T:NA</b>	pCi/L	10/02/22 10:25	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.562 ± 0.399 (0.777)</b> <b>C:76% T:84%</b>	pCi/L	09/28/22 11:36	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.686 ± 0.492 (0.920)</b>	pCi/L	10/03/22 12:21	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough Supplemental Rads-Revised Report

Pace Project No.: 92624832

**Sample: DUP-2**      **Lab ID: 92624832002**      Collected: 09/08/22 00:00      Received: 09/09/22 15:50      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	<b>0.187 ± 0.108 (0.140)</b> <b>C:93% T:NA</b>	pCi/L	10/02/22 10:25	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.247 ± 0.291 (0.614)</b> <b>C:81% T:98%</b>	pCi/L	09/28/22 11:36	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.434 ± 0.399 (0.754)</b>	pCi/L	10/03/22 12:21	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough Supplemental Rads-Revised Report

Pace Project No.: 92624832

**Sample: B-118**      **Lab ID: 92624832003**      Collected: 09/09/22 12:00      Received: 09/09/22 15:50      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	<b>0.182 ± 0.108 (0.147)</b> <b>C:94% T:NA</b>	pCi/L	10/02/22 10:25	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.605 ± 0.375 (0.700)</b> <b>C:80% T:81%</b>	pCi/L	09/28/22 11:36	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.787 ± 0.483 (0.847)</b>	pCi/L	10/03/22 12:21	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: McDonough Supplemental Rads-Revised Report

Pace Project No.: 92624832

QC Batch: 533110

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92624832001, 92624832002, 92624832003

METHOD BLANK: 2586601

Matrix: Water

Associated Lab Samples: 92624832001, 92624832002, 92624832003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.00759 ± 0.0468 (0.133) C:88% T:NA	pCi/L	10/02/22 10:24	

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.

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: McDonough Supplemental Rads-Revised Report

Pace Project No.: 92624832

QC Batch: 533111

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92624832001, 92624832002, 92624832003

METHOD BLANK: 2586603

Matrix: Water

Associated Lab Samples: 92624832001, 92624832002, 92624832003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.798 ± 0.368 (0.604) C:81% T:85%	pCi/L	09/28/22 11:36	

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 Rads-Revised Report

Pace Project No.: 92624832

---

### 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 Rads-Revised Report  
Pace Project No.: 92624832

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92624832001	B-116D	EPA 9315	533110		
92624832002	DUP-2	EPA 9315	533110		
92624832003	B-118	EPA 9315	533110		
92624832001	B-116D	EPA 9320	533111		
92624832002	DUP-2	EPA 9320	533111		
92624832003	B-118	EPA 9320	533111		
92624832001	B-116D	Total Radium Calculation	536982		
92624832002	DUP-2	Total Radium Calculation	536982		
92624832003	B-118	Total Radium Calculation	536982		

### REPORT OF LABORATORY ANALYSIS

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	Document Name: <b>Sample Condition Upon Receipt (SCUR)</b>	Document Revised: November 15, 2021
	Document No.: F-CAR-CS-033-Rev.08	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#: 92624832**



Courier:  Commercial  Fed Ex  Pace  UPS  USPS  Other:  Client

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 9/9/22 JM

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

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

Biological Tissue Frozen?  Yes  No  N/A

Cooler Temp: 2.4 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): 2.4

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 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>WJ</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: \_\_\_\_\_



DC#\_Title: ENV-FRM-HUN1-0083 v01\_Sample Condition Upon Receipt

Effective Date: 05/12/2022

**WO# : 92624832**

Project

PM: NMG

Due Date: 09/30/22

CLIENT: GA-GA Power

\*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

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)	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-)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
1	2	1			1	1																		BPIN					
2	2	1			1	1																		BPIN					
3	2	1			1	1																		BPIN					
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 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.

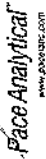
Section A	Section B	Section C	Page : 1 Of 1
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<b>Requested Client Information:</b> Company: Georgia Power - Coal Combustion Residuals Address: 2480 Manor Road Atlanta, GA 30339 Email: JAUCKER@SOUTHERNCO.COM Phone: (478) 624-6178 Requested Due Date: 10 Day TAT	<b>Request Project Information:</b> Request To: Lauren Coker Copy To: Coker Purchase Order #: Project Name: Plant McDonough Supplemental Sampling Network Project #: GL16684962	<b>Invoice Information:</b> Attention: scandinica@southenco.com Company Name: Address: Pack Order: Pack Project Manager: Nicole D'Olea Pack Profile #:	<b>Regulatory Agency:</b> State / Location: GA
---	--	--	---

ITEM #	SAMPLE ID One Character per box (A-Z, 0-9 / . -) Sample IDs must be unique	MATRIX	CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	Preservatives					Analyzes Test							Residual Chlorine (Y/N)	pH	FA2							
									Other	Y	N	N	N	N	N	N	N	N	N	N				N	N	N				
1	B-1160	Drying Water	DW	G	G	9/6/2022	12:42									X	X	X	X	X	X	X	X	X				pH = 5.97, FA2 = 0.0 mg/L		
2	DUP-2	Water	WT	G	G	9/6/2022										X	X	X	X	X	X	X	X	X				pH = 6.49, FA2 = 0.0 mg/L		
3	B-118	White Water	WW	G	G	9/9/2022	12:00									X	X	X	X	X	X	X	X	X						
4		Process Water	PW																											
5		Process Water	PW																											
6		Process Water	PW																											
7		Process Water	PW																											
8		Process Water	PW																											
9		Process Water	PW																											
10		Process Water	PW																											
11		Process Water	PW																											
12		Process Water	PW																											
13		Process Water	PW																											
14		Process Water	PW																											

<b>ADDITIONAL COMMENTS:</b>	<b>RELINQUISHED BY / AFFILIATION:</b>	<b>DATE:</b>	<b>TIME:</b>	<b>ACCEPTED BY / AFFILIATION:</b>	<b>DATE:</b>	<b>TIME:</b>	<b>TEMP in C:</b>	<b>Received on Ice (Y/N):</b>	<b>Custody Sealed Cooler (Y/N):</b>	<b>Samples Intact (Y/N):</b>
	Mark Moore / Georgia Power	09/10/2022	15:50	Dante Jankovic / Georgia Power	09/10/2022	15:50				

# Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226  
Analyst: RMS  
Date: 9/20/2022  
Worklist: 68887  
Matrix: DW

Method Blank Assessment	
MB Sample ID	25866801
MB Concentration:	0.008
MB Counting Uncertainty:	0.047
MB MDC:	0.133
MB Numerical Performance Indicator:	0.32
MB Status vs Numerical Indicator:	N/A
MB Status vs MDC:	Pass

Laboratory Control Sample Assessment		LCS(D, Y or N)?	N
Count Date:		LCS68887	LCS068887
Spike I.D.:		10/2/2022	
Decay Corrected Spike Concentration (pCi/mL):		19.033	
Volume Used (mL):		24.023	
Aliquot Volume (L, g, F):		0.10	
Target Conc. (pCi/L, g, F):		0.505	
Uncertainty (Calculated):		4.760	
Result (pCi/L, g, F):		0.057	
Numerical Performance Indicator:		3.993	
Percent Recovery:		0.431	
Status vs Numerical Indicator:		-3.46	
Upper % Recovery Limits:		83.89%	
Lower % Recovery Limits:		N/A	
		Pass	
		125%	
		75%	

Duplicate Sample Assessment		Sample I.D.	92624832001	92624832002
Duplicate Sample I.D.:		92624832001	92624832001	92624832002
Duplicate Result (pCi/L, g, F):		0.124	0.124	0.124
Sample Result Counting Uncertainty (pCi/L, g, F):		0.091	0.091	0.091
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):		0.071	0.071	0.187
Are sample and/or duplicate results below RL?		See Below ##	See Below ##	See Below ##
Duplicate Numerical Performance Indicator:		0.874	0.874	-0.886
Duplicate RPD:		53.80%	40.32%	40.32%
Duplicate Status vs Numerical Indicator:		N/A	N/A	N/A
Duplicate Status vs RPD:		Fail	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-processed to meet acceptable precision. N/A

LAM 10/3/22

M. 10/3/22

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):		
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:		
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:	
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:	

LAM 10/3/22

# Quality Control Sample Performance Assessment

Analyst *Must Manually Enter All Fields Highlighted in Yellow*

Test: Ra-228  
Analyst: VAL  
Date: 9/19/2022  
Worklist: 68888  
Matrix: WT



**Method Blank Assessment**

MB Sample ID: 2566603  
 MB concentration: 0.798  
 MB 2 Sigma CSU: 0.368  
 MB MDC: 0.604  
 MB Numerical Performance Indicator: 4.25  
 MB Status vs Numerical Indicator: Fail\*  
 MB Status vs MDC: See Comment\*\*

Laboratory Control Sample Assessment	
LCSID (Y or N)?	Y
LCSID68888	9/28/2022
Count Date:	9/28/2022
Spike I.D.:	22-029
Decay Corrected Spike Concentration (pCi/mL):	19.913
Volume Used (mL):	0.20
Aliquot Volume (L, g, F):	0.808
Target Conc. (pCi/L, g, F):	4.927
Uncertainty (Calculated):	0.355
Result (pCi/L, g, F):	5.197
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.258
Numerical Performance Indicator:	1.05
Percent Recovery:	114.19%
Status vs Numerical Indicator:	N/A
Upper % Recovery:	135%
Lower % Recovery Limits:	60%

Duplicate Sample Assessment	
LCSID68888	9/28/2022
Sample I.D.:	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.:	
Sample Result (pCi/L, g, F):	5.626
Sample Duplicate Result (pCi/L, g, F):	1.255
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	5.197
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.158
Are sample and/or duplicate results below RL?:	NO
Duplicate Numerical Performance Indicator:	0.493
Duplicate Percent Recoveries:	7.89%
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:</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 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>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>		
<p>Matrix Spike/Matrix Spike Duplicate Sample Assessment</p> <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>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>		

# 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.

*Amabak*

September 28, 2022

Andrea McClure  
WSP/Golder  
5170 Peachtree Road  
Building 100, Suite 300  
Atlanta, GA 30341

RE: Project: McDonough AP-1,2,3/4 Risk  
Pace Project No.: 92625185

Dear Andrea McClure:

Enclosed are the analytical results for sample(s) received by the laboratory between September 13, 2022 and September 16, 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: Joju Abraham, Georgia Power-CCR  
Stephen Benda, Southern Company  
Noelia Gangi, Georgia Power  
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.  
Michael Smilley, Georgia Power  
Yong Cheng Soo, WSP/Golder  
Tina Sullivan, ERM



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: McDonough AP-1,2,3/4 Risk

Pace Project No.: 92625185

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### **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

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### **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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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: McDonough AP-1,2,3/4 Risk  
Pace Project No.: 92625185

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92625185001	B-79	Water	09/12/22 10:05	09/13/22 10:30
92625185002	B-54	Water	09/13/22 09:40	09/14/22 09:53
92625185003	B-64	Water	09/13/22 14:15	09/14/22 09:53
92625185004	B-78	Water	09/13/22 14:14	09/14/22 09:53
92625185005	B-76	Water	09/13/22 09:54	09/14/22 09:53
92625185006	B-77	Water	09/13/22 14:21	09/14/22 09:53
92625185007	B-63	Water	09/14/22 12:56	09/15/22 08:20
92625185008	B-74	Water	09/14/22 11:02	09/15/22 08:20
92625185009	B-66	Water	09/16/22 10:10	09/16/22 16:30
92625185010	B-88	Water	09/16/22 10:44	09/16/22 16:30
92625185011	B-82	Water	09/16/22 12:15	09/16/22 16:30

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: McDonough AP-1,2,3/4 Risk  
Pace Project No.: 92625185

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92625185001	B-79	EPA 6020B	CW1	1
92625185002	B-54	EPA 6020B	CW1	1
92625185003	B-64	EPA 6020B	CW1	1
92625185004	B-78	EPA 6020B	CW1	1
92625185005	B-76	EPA 6020B	CW1	2
92625185006	B-77	EPA 6020B	CW1	2
92625185007	B-63	EPA 6020B	CW1	2
92625185008	B-74	EPA 6020B	CW1	2
92625185009	B-66	EPA 6020B	CW1	2
92625185010	B-88	EPA 6020B	CW1	1
92625185011	B-82	EPA 6020B	CW1	2

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-1,2,3/4 Risk

Pace Project No.: 92625185

Sample: B-79		Lab ID: 92625185001		Collected: 09/12/22 10:05	Received: 09/13/22 10:30	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		09/19/22 05:42		
pH	<b>4.92</b>	Std. Units			1		09/19/22 05:42		
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Lithium	<b>0.0028J</b>	mg/L	0.030	0.00073	1	09/26/22 09:44	09/26/22 21:03	7439-93-2	

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### ANALYTICAL RESULTS

Project: McDonough AP-1,2,3/4 Risk  
Pace Project No.: 92625185

Sample: B-54		Lab ID: 92625185002		Collected: 09/13/22 09:40		Received: 09/14/22 09:53		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		09/19/22 05:45		
pH	<b>5.34</b>	Std. Units			1		09/19/22 05:45		
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Lithium	<b>0.0058J</b>	mg/L	0.030	0.00073	1	09/26/22 09:44	09/26/22 21:27	7439-93-2	

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## ANALYTICAL RESULTS

Project: McDonough AP-1,2,3/4 Risk

Pace Project No.: 92625185

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: B-64</b>									
<b>Lab ID: 92625185003</b>									
Collected: 09/13/22 14:15    Received: 09/14/22 09:53    Matrix: Water									
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		09/19/22 05:45		
pH	<b>5.00</b>	Std. Units			1		09/19/22 05:45		
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Lithium	<b>0.013J</b>	mg/L	0.030	0.00073	1	09/26/22 09:44	09/26/22 21:33	7439-93-2	

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## ANALYTICAL RESULTS

Project: McDonough AP-1,2,3/4 Risk

Pace Project No.: 92625185

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: B-78</b>									
<b>Lab ID: 92625185004</b>									
Collected: 09/13/22 14:14    Received: 09/14/22 09:53    Matrix: Water									
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		09/19/22 05:44		
pH	<b>4.56</b>	Std. Units			1		09/19/22 05:44		
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Lithium	<b>0.011J</b>	mg/L	0.030	0.00073	1	09/26/22 09:44	09/26/22 21:39	7439-93-2	

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### ANALYTICAL RESULTS

Project: McDonough AP-1,2,3/4 Risk

Pace Project No.: 92625185

**Sample: B-76**      **Lab ID: 92625185005**      Collected: 09/13/22 09:54      Received: 09/14/22 09:53      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	<b>Customer</b>				1		09/19/22 05:45		
pH	<b>6.05</b>	Std. Units			1		09/19/22 05:45		

**6020 MET ICPMS**

Analytical Method: EPA 6020B      Preparation Method: EPA 3005A  
Pace Analytical Services - Peachtree Corners, GA

Cobalt	<b>0.21</b>	mg/L	0.0050	0.00039	1	09/26/22 09:44	09/26/22 21:45	7440-48-4	
Lithium	<b>0.0067J</b>	mg/L	0.030	0.00073	1	09/26/22 09:44	09/26/22 21:45	7439-93-2	

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### ANALYTICAL RESULTS

Project: McDonough AP-1,2,3/4 Risk

Pace Project No.: 92625185

**Sample: B-77**      **Lab ID: 92625185006**      Collected: 09/13/22 14:21      Received: 09/14/22 09:53      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	<b>Customer</b>				1		09/19/22 05:48		
pH	<b>6.34</b>	Std. Units			1		09/19/22 05:48		

**6020 MET ICPMS**

Analytical Method: EPA 6020B      Preparation Method: EPA 3005A  
Pace Analytical Services - Peachtree Corners, GA

Cobalt	ND	mg/L	0.0050	0.00039	1	09/26/22 09:44	09/26/22 22:02	7440-48-4	
Lithium	<b>0.0022J</b>	mg/L	0.030	0.00073	1	09/26/22 09:44	09/26/22 22:02	7439-93-2	

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### ANALYTICAL RESULTS

Project: McDonough AP-1,2,3/4 Risk  
Pace Project No.: 92625185

Sample: B-63		Lab ID: 92625185007		Collected: 09/14/22 12:56	Received: 09/15/22 08:20	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		09/15/22 17:19		
pH	<b>5.31</b>	Std. Units			1		09/15/22 17:19		
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Cobalt	<b>0.043</b>	mg/L	0.0050	0.00039	1	09/26/22 09:44	09/26/22 22:50	7440-48-4	
Lithium	<b>0.0072J</b>	mg/L	0.030	0.00073	1	09/26/22 09:44	09/26/22 22:50	7439-93-2	

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### ANALYTICAL RESULTS

Project: McDonough AP-1,2,3/4 Risk  
Pace Project No.: 92625185

Sample: B-74		Lab ID: 92625185008		Collected: 09/14/22 11:02		Received: 09/15/22 08:20		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		09/15/22 17:19		
pH	<b>6.01</b>	Std. Units			1		09/15/22 17:19		
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Arsenic	<b>0.0054</b>	mg/L	0.0050	0.0022	1	09/26/22 09:44	09/26/22 22:56	7440-38-2	
Molybdenum	<b>0.042</b>	mg/L	0.010	0.00074	1	09/26/22 09:44	09/26/22 22:56	7439-98-7	

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### ANALYTICAL RESULTS

Project: McDonough AP-1,2,3/4 Risk

Pace Project No.: 92625185

**Sample: B-66**      **Lab ID: 92625185009**      Collected: 09/16/22 10:10      Received: 09/16/22 16:30      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	<b>Customer</b>				1		09/19/22 10:34		
pH	<b>8.60</b>	Std. Units			1		09/19/22 10:34		

**6020 MET ICPMS**

Analytical Method: EPA 6020B      Preparation Method: EPA 3005A  
Pace Analytical Services - Peachtree Corners, GA

Arsenic	ND	mg/L	0.0050	0.0022	1	09/26/22 09:44	09/26/22 23:26	7440-38-2	
Cobalt	<b>0.012</b>	mg/L	0.0050	0.00039	1	09/26/22 09:44	09/26/22 23:26	7440-48-4	

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## ANALYTICAL RESULTS

Project: McDonough AP-1,2,3/4 Risk

Pace Project No.: 92625185

Sample: B-88		Lab ID: 92625185010		Collected: 09/16/22 10:44	Received: 09/16/22 16:30	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		09/19/22 10:34		
pH	<b>5.47</b>	Std. Units			1		09/19/22 10:34		
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Cobalt	<b>0.0013J</b>	mg/L	0.0050	0.00039	1	09/26/22 09:44	09/26/22 23:32	7440-48-4	

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## ANALYTICAL RESULTS

Project: McDonough AP-1,2,3/4 Risk

Pace Project No.: 92625185

Sample: B-82		Lab ID: 92625185011		Collected: 09/16/22 12:15	Received: 09/16/22 16:30	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		09/19/22 10:34		
pH	<b>5.02</b>	Std. Units			1		09/19/22 10:34		
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Arsenic	ND	mg/L	0.0050	0.0022	1	09/26/22 09:44	09/26/22 23:38	7440-38-2	
Cobalt	<b>0.0018J</b>	mg/L	0.0050	0.00039	1	09/26/22 09:44	09/26/22 23:38	7440-48-4	

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### QUALITY CONTROL DATA

Project: McDonough AP-1,2,3/4 Risk  
Pace Project No.: 92625185

QC Batch: 725627 Analysis Method: EPA 6020B  
QC Batch Method: EPA 3005A Analysis Description: 6020 MET  
Laboratory: Pace Analytical Services - Peachtree Corners, GA  
Associated Lab Samples: 92625185001, 92625185002, 92625185003, 92625185004, 92625185005, 92625185006, 92625185007, 92625185008, 92625185009, 92625185010, 92625185011

METHOD BLANK: 3780267 Matrix: Water  
Associated Lab Samples: 92625185001, 92625185002, 92625185003, 92625185004, 92625185005, 92625185006, 92625185007, 92625185008, 92625185009, 92625185010, 92625185011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.0050	0.0022	09/26/22 20:51	
Cobalt	mg/L	ND	0.0050	0.00039	09/26/22 20:51	
Lithium	mg/L	ND	0.030	0.00073	09/26/22 20:51	
Molybdenum	mg/L	ND	0.010	0.00074	09/26/22 20:51	

LABORATORY CONTROL SAMPLE: 3780268

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.1	0.099	99	80-120	
Cobalt	mg/L	0.1	0.097	97	80-120	
Lithium	mg/L	0.1	0.11	107	80-120	
Molybdenum	mg/L	0.1	0.10	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3780269 3780270

Parameter	Units	92625185001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Spike Conc.	MSD Spike Conc.	MS Result						
Arsenic	mg/L	ND	0.1	0.1	0.099	0.098	99	98	75-125	2	20	
Cobalt	mg/L	0.0036J	0.1	0.1	0.097	0.095	93	91	75-125	2	20	
Lithium	mg/L	0.0028J	0.1	0.1	0.11	0.11	106	102	75-125	3	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	102	103	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.

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## QUALIFIERS

Project: McDonough AP-1,2,3/4 Risk

Pace Project No.: 92625185

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### 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 AP-1,2,3/4 Risk  
Pace Project No.: 92625185

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92625185001	B-79				
92625185002	B-54				
92625185003	B-64				
92625185004	B-78				
92625185005	B-76				
92625185006	B-77				
92625185007	B-63				
92625185008	B-74				
92625185009	B-66				
92625185010	B-88				
92625185011	B-82				
92625185001	B-79	EPA 3005A	725627	EPA 6020B	725817
92625185002	B-54	EPA 3005A	725627	EPA 6020B	725817
92625185003	B-64	EPA 3005A	725627	EPA 6020B	725817
92625185004	B-78	EPA 3005A	725627	EPA 6020B	725817
92625185005	B-76	EPA 3005A	725627	EPA 6020B	725817
92625185006	B-77	EPA 3005A	725627	EPA 6020B	725817
92625185007	B-63	EPA 3005A	725627	EPA 6020B	725817
92625185008	B-74	EPA 3005A	725627	EPA 6020B	725817
92625185009	B-66	EPA 3005A	725627	EPA 6020B	725817
92625185010	B-88	EPA 3005A	725627	EPA 6020B	725817
92625185011	B-82	EPA 3005A	725627	EPA 6020B	725817

### 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:

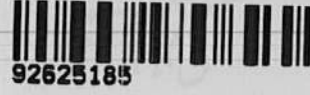
Asheville  Eden  Greenwood  Huntersville  Raleigh  Meridianville  Atlanta  Kernersville

Sample Condition Upon Receipt

Client Name: Georgia Power

Project #:

WO#: 92625185



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

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 09/13/22 JM

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: 1.9 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): 1.9

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 checked="" 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: W6		
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

**WO# : 92625185**

PM: NMG

Due Date: 09/27/22

CLIENT: GA-GA Power

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

Exceptions: VOA, Coliform, TGC, 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 7N Acetate & NaOH (>9)	BP4B-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)	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-)	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 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		Report To: Lauren Colier		Attention: scainvoices@southernco.com	
Address: 2480 Maner Road Atlanta, GA 30339		Copy To: Collier		Company Name:	
Email: laucoker@southernco.com		Purchase Order #:		Address:	
Phone: (470) 820-6178		Project Name: Plant McDonough AP-1, AP-2, AP-3/4 Risk Assessment		Pace Project Manager: Nicole D'Oleo	
Requested Due Date: 10 Day TAT		Project #: GL166849622		Pace Profile #:	
Regulatory Agency					
State / Location: GA					

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique	MATRIX		DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	UNPRESERVED - Ice	PRESERVATIVES							ANALYSES TEST	Y/N	RETIKUL CHLORINE (Y/N)	REMARKS
		Driving Water	Waste Water						H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other				
		CODE DW WW	CODE Y SL QL WP AR OT TB						UNPRESERVED - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol				
1	8-79	WQ	G	9/12/2022	10:05		1		1						X		pH = 4.92		
2																			
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
	J.N. Sample	9/13/22	8:05	M. BAH	9-13-22	8:10	
				J. W. Wagespack	9/13/22	10:30	

Joe WAGESPACK DATE Signed: 9/13/22

TEMP in C	Received on
	Ice (Y/N)
	Custody Sealed (Y/N)
	Cooler (Y/N)
	Samplers intact (Y/N)



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:

GA Power

Project #:

5185

Courier:  Commercial  Fed Ex  Pace  UPS  USPS  Other:  Client

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 9/14/22 TMR

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Thermometer:

IR Gun ID:

230

Type of Ice:

Wet

Blue

None

Biological Tissue Frozen?

Yes

No

N/A

Cooler Temp:

3.2

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):

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.	
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:	WW		
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)		
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 Manor Road  
 Atlanta, GA 30339  
 Email: laucoker@southernco.com  
 Phone: (470) 620-6176  
 Requested Due Date: 10 Day TAT

**Section B**

**Required Project Information:**

Report To: Lauren Coker  
 Copy To: Golder  
 Purchase Order #:   
 Project Name: Plant McD AP-1, AP-2 and 3/4 Risk Assessment  
 Project #: GL105849822

**Section C**

**Invoice Information:**

Attention: acsinvoices@southernco.com  
 Company Name:   
 Address:   
 Pace Quote:   
 Pace Project Manager: Nicole D'Oleo  
 Pace Profile #:   
 Regulatory Agency:   
 State / Location: GA

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 Wsp Air Other Tissue	CODE DW WT WW P SL CL YP AR OT TB	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (B-CRAB C-COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Y/N	Analyses Test	Lithium Cobalt	Residual Chlorine (Y/N)	pH				
										Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	H2SO3	Methanol	Other						N	N	N	N
1	B-54			WG	G	9/13/2022	9:40		1		1									X						pH = 5.34
2	B-64			WG	G	9/13/2022	14:15		1		1									X						pH = 5.00
3	B-76			WG	G	9/13/2022	9:54		1		1									X	X					pH = 6.05
4	B-77			WG	G	9/13/2022	14:21		1		1									X	X					pH = 6.34
6	B-78			WG	G	9/13/2022	14:14		1		1									X						pH = 4.50
7																										
8																										
9																										
10																										
11																										
12																										
13																										
14																										

ADDITIONAL COMMENTS	REQUISITIONED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	JNW / Golder	9-14-22	8:53	[Signature] - 834	9/14/22	8:53	
				[Signature]	9/14/22	09:50	

JUDE WAGUESPAK

DATE Signed: 9-14-22

TEMP In C  
 Received on Ice (Y/N)  
 Cooled (Y/N)  
 Sealed (Y/N)  
 Samples intact (Y/N)



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

Proj

**WO# : 92625185**  
 PM: NMG Due Date: 09/27/22  
 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: 9/15/22  
COB

Packing Material:  Bubble Wrap  Bubble Bags  None  Other  
 Thermometer:  IR Gun ID: 230 Type of Ice:  Wet  Blue  None

Biological Tissue Frozen?  
 Yes  No  N/A

Cooler Temp: 3.8 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): 3.8

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.
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 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.

Project

**WO# : 92625185**

PM: NMG

Due Date: 09/27/22

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

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)	VSGU-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).







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: Georgia Power

Project

WO#: 92625185

PM: NMG Due Date: 09/27/22

CLIENT: GA-GA Power

Courier:  Commercial  Fed Ex  Pace  UPS  USPS  Client  Other:

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 9/17/22 JM

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Thermometer:  IR Gun ID: 230 Correction Factor: Add/Subtract (°C) 0.0 Type of Ice:  Wet  Blue  None

Biological Tissue Frozen?  Yes  No  N/A

Cooler Temp: 3.3

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

Cooler Temp Corrected (°C): 3.3

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

Chain of Custody Present?	Yes	No	N/A	1.	Comments/Discrepancy:
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: WG					
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

CLIENT NOTIFICATION/RESOLUTION

Lot ID of split containers:

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

**WO# : 92625185**

Project

PM: NMG

Due Date: 09/27/22

CLIENT: GA-GA Power

\*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

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-)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
1		2	1			1																		2					
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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 Maner Road Atlanta, GA 30339
Email:	laucoker@southernco.com
Phone	(478) 520-6176
Requested Due Date	10 Day TAT

**Section B****Required Project Information:**

Report To:	Lauren Coker
Copy To:	Goldier
Purchase Order #	
Project Name	Plant McD AP-1 2 3/4 Risk Assessment
Project #	GL166849622

**Section C****Invoice Information:**

Attention:	scs@voicex@southernco.com
Company Name	
Address:	
Pace Quote	
Pace Project Manager:	Nicole D'Oleo
Pace Profile #:	

Page : 1 Of 1

Regulatory Agency

State / Location

GA

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / . -) Sample IDs must be unique	MATRIX Drinking Water Water Waste Water Product Soil Dirt Wipe Air Other Tissue	CODE DW WT WW P SL OL WP AR OT TS	MATRIX CODE (see vial codes to left)	SAMPLE TYPE (G-CRAB C-COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Y/N	Analyses Test	Residual Chlorine (Y/N)					
										Requested Analysis Filtered (Y/N)																	
										Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Arsenic	Cobalt								
1	B-66			WG	G	9/16/2022	10:10		1		1									X	X						pH = 6.60
2	B-88			WG	G	9/16/2022	10:44		1		1										X						pH = 5.47
3	B-82			WG	G	9/16/2022	12:15		1		1									X	X						pH = 5.02
4																											
6																											
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12																											
13																											
14																											
ADDITIONAL COMMENTS				RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION				DATE	TIME	SAMPLE CONDITIONS													
				Mark Mear Goldier		9/16/22	16:25	<i>[Signature]</i>				9/16	16:30														

TEMP in C

Received on ice (Y/N)

Custody Sealed Cooler (Y/N)

Samples intact (Y/N)

DATE Signed:

November 01, 2022

Andrea McClure  
WSP/Golder  
5170 Peachtree Road  
Building 100, Suite 300  
Atlanta, GA 30341

RE: Project: McDonough AP-1234 Risk Assess.-Revised Report  
Pace Project No.: 92624830

Dear Andrea McClure:

Enclosed are the analytical results for sample(s) received by the laboratory on September 09, 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

Revision 1: Issued on 11/1/22 to update project name, per client request.

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: Joju Abraham, Georgia Power-CCR  
Stephen Benda, Southern Company  
Noelia Gangi, Georgia Power  
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.  
Michael Smilley, Georgia Power  
Yong Cheng Soo, WSP/Golder  
Tina Sullivan, 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-1234 Risk Assess.-Revised Report

Pace Project No.: 92624830

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### **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

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### **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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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: McDonough AP-1234 Risk Assess.-Revised Report  
Pace Project No.: 92624830

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Lab ID	Sample ID	Matrix	Date Collected	Date Received
92624830001	B-73	Water	09/08/22 14:55	09/09/22 15:50
92624830002	B-62	Water	09/09/22 11:25	09/09/22 15:50
92624830003	B-68	Water	09/09/22 10:44	09/09/22 15:50

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: McDonough AP-1234 Risk Assess.-Revised Report

Pace Project No.: 92624830

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Lab ID	Sample ID	Method	Analysts	Analytes Reported
92624830001	B-73	EPA 6020B	CW1	1
92624830002	B-62	EPA 6020B	CW1	1
92624830003	B-68	EPA 6020B	CW1	2

---

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-1234 Risk Assess.-Revised Report

Pace Project No.: 92624830

Sample: B-73		Lab ID: 92624830001		Collected: 09/08/22 14:55	Received: 09/09/22 15:50	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		09/09/22 17:46		
pH	<b>6.63</b>	Std. Units			1		09/09/22 17:46		
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Arsenic	<b>0.019</b>	mg/L	0.0050	0.0022	1	09/21/22 17:50	09/22/22 19:50	7440-38-2	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: McDonough AP-1234 Risk Assess.-Revised Report

Pace Project No.: 92624830

Sample: B-62		Lab ID: 92624830002		Collected: 09/09/22 11:25		Received: 09/09/22 15:50		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		09/09/22 17:47		
pH	<b>6.22</b>	Std. Units			1		09/09/22 17:47		
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Cobalt	ND	mg/L	0.0050	0.00039	1	09/21/22 17:50	09/22/22 19:56	7440-48-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: McDonough AP-1234 Risk Assess.-Revised Report

Pace Project No.: 92624830

**Sample: B-68**      **Lab ID: 92624830003**      Collected: 09/09/22 10:44      Received: 09/09/22 15:50      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
------------	---------	-------	--------------	-----	----	----------	----------	---------	------

**Field Data**

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>Customer</b>				1		09/09/22 17:47		
pH	<b>6.64</b>	Std. Units			1		09/09/22 17:47		

**6020 MET ICPMS**

Analytical Method: EPA 6020B      Preparation Method: EPA 3005A  
Pace Analytical Services - Peachtree Corners, GA

Arsenic	<b>0.51</b>	mg/L	0.0050	0.0022	1	09/21/22 17:50	09/22/22 20:02	7440-38-2	
Molybdenum	<b>0.17</b>	mg/L	0.010	0.00074	1	09/21/22 17:50	09/22/22 20:02	7439-98-7	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: McDonough AP-1234 Risk Assess.-Revised Report  
Pace Project No.: 92624830

QC Batch: 724857 Analysis Method: EPA 6020B  
QC Batch Method: EPA 3005A Analysis Description: 6020 MET  
Laboratory: Pace Analytical Services - Peachtree Corners, GA  
Associated Lab Samples: 92624830001, 92624830002, 92624830003

METHOD BLANK: 3776475 Matrix: Water  
Associated Lab Samples: 92624830001, 92624830002, 92624830003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.0050	0.0022	09/22/22 16:16	
Cobalt	mg/L	ND	0.0050	0.00039	09/22/22 16:16	
Molybdenum	mg/L	ND	0.010	0.00074	09/22/22 16:16	

LABORATORY CONTROL SAMPLE: 3776476

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.1	0.096	96	80-120	
Cobalt	mg/L	0.1	0.097	97	80-120	
Molybdenum	mg/L	0.1	0.10	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3776477 3776478

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92622406010 Result	Spike Conc.	Spike Conc.	Result								
Arsenic	mg/L	ND	0.1	0.1	0.093	0.098	93	98	75-125	5	20		
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	0.099	0.099	99	99	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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## QUALIFIERS

Project: McDonough AP-1234 Risk Assess.-Revised Report

Pace Project No.: 92624830

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### 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 AP-1234 Risk Assess.-Revised Report

Pace Project No.: 92624830

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92624830001	B-73				
92624830002	B-62				
92624830003	B-68				
92624830001	B-73	EPA 3005A	724857	EPA 6020B	724980
92624830002	B-62	EPA 3005A	724857	EPA 6020B	724980
92624830003	B-68	EPA 3005A	724857	EPA 6020B	724980

### 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# : 92624830**



Courier:  Commercial  Fed Ex  Pace  UPS  USPS  Other:  Client

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 9/9/22 JM

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: 2.4 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

Cooler Temp Corrected (°C): 2.4

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: <u>WJ</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 #

**WO# : 92624830**

PM: NMG

Due Date: 09/23/22

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

\*\*\*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)		
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 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.

Page: 1 of 1

<b>Section A</b> Required Client Information: Company: Georgia Power - Coal Combustion Residuals Address: 2480 Maner Road Atlanta, GA 30339 Email: laucoker@southernpo.com Phone: (470) 620-6176 Requested Due Date: 10 Day TAT		<b>Section B</b> Required Project Information: Report To: Lauren Coker Copy To: Golder Purchase Order #: Project Name: Plant McDonough AP-1234 Risk Assessment Project #: GL16604862		<b>Section C</b> Invoice Information: Attention: scainvoices@southernpo.com Company Name: Address: State / Location: GA Regulatory Agency: State Project Manager: Nicole D'Ono Pace Profile #:	
--	--	--	--	--	--

ITEM #	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	RECEIVED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	TEMP in C	Received on Site (Y/N)	Custody Sealed (Y/N)	Cooler (Y/N)	Samples Intact (Y/N)
1	B-73	G	9/9/2022	14:55	Mark Huel / Golder	9/9/22	15:50	Charles Huel	9/9/22	15:50					
2	B-62	G	9/9/2022	11:25											
3	B-68	G	9/9/2022	10:44											
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															

MATRIX CODE (see valid codes to left):  
 DW Drinking Water  
 WW Wastewater  
 WP Wastewater Product  
 SL Soil  
 OL Oil  
 AP Air Particulate  
 CE Cement  
 TS Tissue

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

Preservatives:   
 HNO3 + Ice    
 Unpreserved - Ice    
 # OF CONTAINERS:   
 SAMPLE TEMP AT COLLECTION:   
 ANALYSIS TEST:   
 Arsenic    
 Cobalt    
 Molybdenum    
 Residual Chlorine (Y/N)    
 pH = 6.53   
 pH = 6.22   
 pH = 6.54   
 V18 30

ADDITIONAL COMMENTS:   
 DATE SIGNED:



October 05, 2022

Andrea McClure  
WSP/Golder  
5170 Peachtree Road  
Building 100, Suite 300  
Atlanta, GA 30341

RE: Project: McDonough Surface Water-Revised Report  
Pace Project No.: 92624825

Dear Andrea McClure:

Enclosed are the analytical results for sample(s) received by the laboratory between September 09, 2022 and September 14, 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

Revision 1: Issued on 10/5/22 to include the SCUR and COC for SW-4.

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: Joju Abraham, Georgia Power-CCR  
Stephen Benda, Southern Company  
Noelia Gangi, Georgia Power  
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.  
Michael Smilley, Georgia Power  
Yong Cheng Soo, WSP/Golder



## REPORT OF LABORATORY ANALYSIS

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October 05, 2022  
Page 2

cc: Tina Sullivan, ERM



## **REPORT OF LABORATORY ANALYSIS**

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## CERTIFICATIONS

Project: McDonough Surface Water-Revised Report

Pace Project No.: 92624825

---

### **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

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### **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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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: McDonough Surface Water-Revised Report  
Pace Project No.: 92624825

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92624825001	SW-1	Water	09/08/22 14:47	09/09/22 15:50
92624825002	SW-2	Water	09/08/22 15:23	09/09/22 15:50
92624825003	SW-3	Water	09/08/22 15:43	09/09/22 15:50
92624825004	SW-4	Water	09/13/22 09:15	09/14/22 09:53

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: McDonough Surface Water-Revised Report  
Pace Project No.: 92624825

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92624825001	SW-1	EPA 6020B	CW1	1
92624825002	SW-2	EPA 6020B	CW1	1
92624825003	SW-3	EPA 6020B	CW1	1
92624825004	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-Revised Report

Pace Project No.: 92624825

Sample: SW-1		Lab ID: 92624825001		Collected: 09/08/22 14:47		Received: 09/09/22 15:50		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		09/09/22 17:37		
pH	<b>6.70</b>	Std. Units			1		09/09/22 17:37		
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Boron	<b>0.54</b>	mg/L	0.040	0.0086	1	09/22/22 18:15	09/24/22 19:18	7440-42-8	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: McDonough Surface Water-Revised Report

Pace Project No.: 92624825

**Sample: SW-2**      **Lab ID: 92624825002**      Collected: 09/08/22 15:23      Received: 09/09/22 15:50      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
------------	---------	-------	-----------------	-----	----	----------	----------	---------	------

**Field Data**

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>Customer</b>				1		09/09/22 17:37		
pH	<b>7.10</b>	Std. Units			1		09/09/22 17:37		

**6020 MET ICPMS**

Analytical Method: EPA 6020B      Preparation Method: EPA 3005A  
Pace Analytical Services - Peachtree Corners, GA

Boron	<b>0.077</b>	mg/L	0.040	0.0086	1	09/22/22 18:15	09/24/22 19:24	7440-42-8	
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### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: McDonough Surface Water-Revised Report

Pace Project No.: 92624825

Sample: SW-3		Lab ID: 92624825003		Collected: 09/08/22 15:43	Received: 09/09/22 15:50	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		09/09/22 17:38		
pH	<b>7.13</b>	Std. Units			1		09/09/22 17:38		
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Boron	<b>0.18</b>	mg/L	0.040	0.0086	1	09/22/22 18:15	09/24/22 19:30	7440-42-8	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: McDonough Surface Water-Revised Report

Pace Project No.: 92624825

Sample: SW-4		Lab ID: 92624825004		Collected: 09/13/22 09:15	Received: 09/14/22 09:53	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		09/14/22 14:42		
pH	<b>6.61</b>	Std. Units			1		09/14/22 14:42		
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Boron	<b>0.61</b>	mg/L	0.20	0.043	5	09/22/22 18:15	09/26/22 14:37	7440-42-8	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: McDonough Surface Water-Revised Report

Pace Project No.: 92624825

QC Batch:	725176	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3005A	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92624825001, 92624825002, 92624825003, 92624825004

METHOD BLANK: 3778147 Matrix: Water

Associated Lab Samples: 92624825001, 92624825002, 92624825003, 92624825004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	mg/L	ND	0.040	0.0086	09/24/22 17:31	

LABORATORY CONTROL SAMPLE: 3778148

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	1.1	108	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3778149 3778150

Parameter	Units	3778149		3778150		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		92624372001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Boron	mg/L	3.3	1	1	4.3	4.4	96	108	75-125	3	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-Revised Report

Pace Project No.: 92624825

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### 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-Revised Report

Pace Project No.: 92624825

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92624825001	SW-1				
92624825002	SW-2				
92624825003	SW-3				
92624825004	SW-4				
92624825001	SW-1	EPA 3005A	725176	EPA 6020B	725367
92624825002	SW-2	EPA 3005A	725176	EPA 6020B	725367
92624825003	SW-3	EPA 3005A	725176	EPA 6020B	725367
92624825004	SW-4	EPA 3005A	725176	EPA 6020B	725367

### 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#: **92624825**



Courier:  Commercial  Fed Ex  Pace  UPS  USPS  Client  Other: \_\_\_\_\_

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 9/9/22 JM

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

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

Biological Tissue Frozen?  Yes  No  N/A

Cooler Temp: 2.4 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): 2.4

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

Chain of Custody Present?	Yes	No	N/A	1.	Comments/Discrepancy:
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 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>WJ</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

CLIENT NOTIFICATION/RESOLUTION

Lot ID of split containers:

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#: 92624825

PM: NMG

Due Date: 09/23/22

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)	DG9A-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)	SPST-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP9R-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)		
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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.

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		Page : 1 Of 1
Company: Georgia Power - Coal Combustion Residuals		Report To: Joju Abraham		Attention: sctinvoic@southernco.com		
Address: 2480 Maner Road Atlanta, GA 30338		Copy To: Golder		Company Name:		
Email: j.abraham@southernco.com		Purchase Order #:		Address:		Regulatory Agency
Phone: (404) 506-7239		Project Name: Plant McDonough Surface Water Sampling		Pace Project Manager: Nicole D'Oleo		State / Location
Requested Due Date: 10 Day TAT		Project #: GL168849622		Pace Profile #:		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							Analytes Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)			
								Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol				Other	Y	N
1	SW-1	WS	G	9/8/2022	14:47		1		1						X			pH = 6.70		
2	SW-2	WS	G	9/8/2022	15:23		1		1						X			pH = 7.10		
3	SW-3	WS	G	9/8/2022	15:43		1		1						X			pH = 7.13		
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5																				
6																				
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14																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	M. Mann / Golder	9/9/22	15:50	Charles Hanks	9/9/22	15:50	

	DATE Signed:
	TEMP in C
	Received on Ice (Y/N)
	Custody Sealed Cooler (Y/N)
	Samples Intact (Y/N)



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

Sample Condition Upon Receipt

Client Name: GA Power

Project WO#: 92624825

PM: NMG Due Date: 09/23/22
CLIENT: GA-GA Power

Courier: Commercial  Pace  Fed Ex  UPS  USPS  Other: Client

Custody Seal Present? Yes  No  Seals intact? Yes  No

Date/Initials Person Examining Contents: 9/14/22 TBT

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: 3.2 Correction Factor: 0.0 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

Table with 2 columns: Question and Comments/Discrepancy. Rows include Chain of Custody Present, Samples Arrived within Hold Time, Short Hold Time Analysis, Rush Turn Around Time Requested, Sufficient Volume, Correct Containers Used, Containers Intact, Dissolved analysis: Samples Field Filtered, Sample Labels Match COC, Headspace in VOA Vials, Trip Blank Present, Trip Blank Custody Seals Present.

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

**WO#: 92624825**

PM: NMG

Due Date: 09/23/22

CLIENT: GA-GA Power

\*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

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)	DG9A-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-)	VSGU-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 DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.



November 03, 2022

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

RE: Project: Plant McDonough CCR-Ash Pond  
Pace Project No.: 92633523

Dear Kelley Sharpe:

Enclosed are the analytical results for sample(s) received by the laboratory on October 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 - 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  
Laura Midkiff, Georgia Power  
Tina Sullivan, ERM



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92633523

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### **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

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### **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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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Plant McDonough CCR-Ash Pond  
Pace Project No.: 92633523

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92633523001	DW_DS	Water	10/27/22 11:55	10/28/22 09:50
92633523002	DW_US	Water	10/27/22 12:03	10/28/22 09:50
92633523003	CR-0.2	Water	10/27/22 12:10	10/28/22 09:50
92633523004	CR-0.5	Water	10/27/22 12:19	10/28/22 09:50

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Plant McDonough CCR-Ash Pond  
Pace Project No.: 92633523

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92633523001	DW_DS	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	KH	3	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92633523002	DW_US	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	KH	3	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92633523003	CR-0.2	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1	3	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92633523004	CR-0.5	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1	3	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	SMS	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.: 92633523

Sample: DW_DS	Lab ID: 92633523001	Collected: 10/27/22 11:55	Received: 10/28/22 09:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D ATL ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	7.3	mg/L	0.20	1	10/31/22 10:32	10/31/22 16:27	7440-09-7	
Sodium	29.4	mg/L	1.0	1	10/31/22 10:32	10/31/22 16:27	7440-23-5	
Calcium	14.4	mg/L	1.0	1	10/31/22 10:32	10/31/22 16:27	7440-70-2	
Magnesium	4.0	mg/L	0.050	1	10/31/22 10:32	10/31/22 16:27	7439-95-4	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Boron	0.070	mg/L	0.040	1	10/31/22 10:06	10/31/22 20:34	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	10/31/22 10:06	10/31/22 20:34	7440-48-4	
Lithium	ND	mg/L	0.030	1	10/31/22 10:06	10/31/22 20:34	7439-93-2	
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	52.0	mg/L	25.0	1		11/01/22 16:09		MW
<b>2320B Alkalinity</b>								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	39.3	mg/L	5.0	1		11/01/22 12:50		
Alkalinity, Total as CaCO <sub>3</sub>	39.3	mg/L	5.0	1		11/01/22 12:50		
<b>300.0 IC Anions 28 Days</b>								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	25.6	mg/L	1.0	1		10/31/22 05:56	16887-00-6	
Fluoride	0.36	mg/L	0.10	1		10/31/22 05:56	16984-48-8	
Sulfate	36.4	mg/L	1.0	1		10/31/22 05:56	14808-79-8	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond  
Pace Project No.: 92633523

Sample: DW_US		Lab ID: 92633523002	Collected: 10/27/22 12:03	Received: 10/28/22 09:50	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D ATL ICP</b>		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA						
Potassium	4.1	mg/L	0.20	1	10/31/22 10:32	10/31/22 16:31	7440-09-7	
Sodium	12.2	mg/L	1.0	1	10/31/22 10:32	10/31/22 16:31	7440-23-5	
Calcium	7.6	mg/L	1.0	1	10/31/22 10:32	10/31/22 16:31	7440-70-2	
Magnesium	2.2	mg/L	0.050	1	10/31/22 10:32	10/31/22 16:31	7439-95-4	
<b>6020 MET ICPMS</b>		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA						
Boron	ND	mg/L	0.040	1	10/31/22 10:06	10/31/22 20:40	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	10/31/22 10:06	10/31/22 20:40	7440-48-4	
Lithium	ND	mg/L	0.030	1	10/31/22 10:06	10/31/22 20:40	7439-93-2	
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA						
Total Dissolved Solids	67.0	mg/L	25.0	1		11/01/22 16:09		MW
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville						
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	26.7	mg/L	5.0	1		11/01/22 16:17		
Alkalinity, Total as CaCO <sub>3</sub>	26.7	mg/L	5.0	1		11/01/22 16:17		
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville						
Chloride	12.0	mg/L	1.0	1		10/31/22 06:12	16887-00-6	
Fluoride	0.17	mg/L	0.10	1		10/31/22 06:12	16984-48-8	
Sulfate	7.0	mg/L	1.0	1		10/31/22 06:12	14808-79-8	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond  
Pace Project No.: 92633523

Sample: CR-0.2	Lab ID: 92633523003	Collected: 10/27/22 12:10	Received: 10/28/22 09:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D ATL ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	4.2	mg/L	0.20	1	10/31/22 10:32	10/31/22 16:46	7440-09-7	
Sodium	12.5	mg/L	1.0	1	10/31/22 10:32	10/31/22 16:46	7440-23-5	
Calcium	7.7	mg/L	1.0	1	10/31/22 10:32	10/31/22 16:46	7440-70-2	
Magnesium	2.3	mg/L	0.050	1	10/31/22 10:32	10/31/22 16:46	7439-95-4	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Boron	0.046	mg/L	0.040	1	10/31/22 13:30	11/01/22 13:51	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	10/31/22 13:30	11/01/22 13:51	7440-48-4	
Lithium	ND	mg/L	0.030	1	10/31/22 13:30	11/01/22 13:51	7439-93-2	
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	104	mg/L	25.0	1		11/01/22 16:09		MW
<b>2320B Alkalinity</b>								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	27.4	mg/L	5.0	1		11/01/22 16:23		
Alkalinity, Total as CaCO <sub>3</sub>	27.4	mg/L	5.0	1		11/01/22 16:23		
<b>300.0 IC Anions 28 Days</b>								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	12.3	mg/L	1.0	1		10/31/22 06:59	16887-00-6	
Fluoride	0.18	mg/L	0.10	1		10/31/22 06:59	16984-48-8	
Sulfate	7.1	mg/L	1.0	1		10/31/22 06:59	14808-79-8	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond  
Pace Project No.: 92633523

Sample: CR-0.5	Lab ID: 92633523004	Collected: 10/27/22 12:19	Received: 10/28/22 09:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D ATL ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	4.3	mg/L	0.20	1	10/31/22 10:32	10/31/22 16:51	7440-09-7	
Sodium	12.8	mg/L	1.0	1	10/31/22 10:32	10/31/22 16:51	7440-23-5	
Calcium	7.9	mg/L	1.0	1	10/31/22 10:32	10/31/22 16:51	7440-70-2	
Magnesium	2.3	mg/L	0.050	1	10/31/22 10:32	10/31/22 16:51	7439-95-4	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Boron	0.048	mg/L	0.040	1	10/31/22 13:30	11/01/22 14:15	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	10/31/22 13:30	11/01/22 14:15	7440-48-4	
Lithium	ND	mg/L	0.030	1	10/31/22 13:30	11/01/22 14:15	7439-93-2	
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	75.0	mg/L	25.0	1		11/01/22 16:09		MW
<b>2320B Alkalinity</b>								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	27.2	mg/L	5.0	1		11/01/22 16:29		
Alkalinity, Total as CaCO <sub>3</sub>	27.2	mg/L	5.0	1		11/01/22 16:29		
<b>300.0 IC Anions 28 Days</b>								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	12.8	mg/L	1.0	1		10/31/22 07:15	16887-00-6	
Fluoride	0.17	mg/L	0.10	1		10/31/22 07:15	16984-48-8	
Sulfate	7.3	mg/L	1.0	1		10/31/22 07:15	14808-79-8	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Plant McDonough CCR-Ash Pond  
Pace Project No.: 92633523

QC Batch: 733725 Analysis Method: EPA 6010D  
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL  
Laboratory: Pace Analytical Services - Peachtree Corners, GA  
Associated Lab Samples: 92633523001, 92633523002, 92633523003, 92633523004

METHOD BLANK: 3818800 Matrix: Water  
Associated Lab Samples: 92633523001, 92633523002, 92633523003, 92633523004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	10/31/22 14:27	
Magnesium	mg/L	ND	0.050	10/31/22 14:27	
Potassium	mg/L	ND	0.20	10/31/22 14:27	
Sodium	mg/L	ND	1.0	10/31/22 14:27	

LABORATORY CONTROL SAMPLE: 3818801

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	103	80-120	
Potassium	mg/L	1	1.0	102	80-120	
Sodium	mg/L	1	1.1	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3818802 3818803

Parameter	Units	92633366005 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Calcium	mg/L	114000 ug/L	1	116	1	118	196	385	75-125	2	20	M1
Magnesium	mg/L	27400 ug/L	1	28.8	1	29.3	138	185	75-125	2	20	M1
Potassium	mg/L	36900 ug/L	1	38.3	1	39.1	143	222	75-125	2	20	M1
Sodium	mg/L	266000 ug/L	1	270	1	275	337	867	75-125	2	20	M1

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### QUALITY CONTROL DATA

Project: Plant McDonough CCR-Ash Pond  
Pace Project No.: 92633523

QC Batch: 733721 Analysis Method: EPA 6020B  
QC Batch Method: EPA 3005A Analysis Description: 6020 MET  
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92633523001, 92633523002

METHOD BLANK: 3818794 Matrix: Water

Associated Lab Samples: 92633523001, 92633523002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	mg/L	ND	0.040	10/31/22 17:53	
Cobalt	mg/L	ND	0.0050	10/31/22 17:53	
Lithium	mg/L	ND	0.030	10/31/22 17:53	

LABORATORY CONTROL SAMPLE: 3818795

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	1.1	108	80-120	
Cobalt	mg/L	0.1	0.11	105	80-120	
Lithium	mg/L	0.1	0.10	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3818796 3818797

Parameter	Units	92633223001		3818796		3818797		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Boron	mg/L	24.7J ug/L	1	1	1.1	1.1	105	108	75-125	3	20		
Cobalt	mg/L	6.9J ug/L	0.1	0.1	0.11	0.11	104	101	75-125	3	20		
Lithium	mg/L	ND	0.1	0.1	0.10	0.10	101	104	75-125	2	20		

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### QUALITY CONTROL DATA

Project: Plant McDonough CCR-Ash Pond  
Pace Project No.: 92633523

QC Batch: 733760 Analysis Method: EPA 6020B  
QC Batch Method: EPA 3005A Analysis Description: 6020 MET  
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92633523003, 92633523004

METHOD BLANK: 3818985 Matrix: Water

Associated Lab Samples: 92633523003, 92633523004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	mg/L	ND	0.040	11/01/22 13:39	
Cobalt	mg/L	ND	0.0050	11/01/22 13:39	
Lithium	mg/L	ND	0.030	11/01/22 13:39	

LABORATORY CONTROL SAMPLE: 3818986

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	1.1	112	80-120	
Cobalt	mg/L	0.1	0.10	102	80-120	
Lithium	mg/L	0.1	0.11	110	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3818987 3818988

Parameter	Units	92633523003		3818987		3818988		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
Boron	mg/L	0.046	1	1	1.2	1.2	110	111	75-125	1	20		
Cobalt	mg/L	ND	0.1	0.1	0.098	0.10	98	103	75-125	4	20		
Lithium	mg/L	ND	0.1	0.1	0.11	0.11	112	110	75-125	1	20		

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### QUALITY CONTROL DATA

Project: Plant McDonough CCR-Ash Pond  
Pace Project No.: 92633523

QC Batch: 734041 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: 92633523001, 92633523002, 92633523003, 92633523004

METHOD BLANK: 3820511 Matrix: Water  
Associated Lab Samples: 92633523001, 92633523002, 92633523003, 92633523004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	11/01/22 16:09	

LABORATORY CONTROL SAMPLE: 3820512

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	379	95	80-120	

SAMPLE DUPLICATE: 3820513

Parameter	Units	92632809001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2370	2160	9	10	

SAMPLE DUPLICATE: 3820514

Parameter	Units	92633519004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	167	74.0	77	10	D6,MW

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### QUALITY CONTROL DATA

Project: Plant McDonough CCR-Ash Pond  
Pace Project No.: 92633523

QC Batch: 733493      Analysis Method: SM 2320B-2011  
QC Batch Method: SM 2320B-2011      Analysis Description: 2320B Alkalinity  
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92633523001

METHOD BLANK: 3817756      Matrix: Water  
Associated Lab Samples: 92633523001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	ND	5.0	11/01/22 11:33	
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	mg/L	ND	5.0	11/01/22 11:33	

LABORATORY CONTROL SAMPLE: 3817757

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	50	55.0	110	80-120	

LABORATORY CONTROL SAMPLE: 3817758

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	50	49.5	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3817759      3817760

Parameter	Units	92633455004 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 <sub>3</sub>	mg/L	34.3	50	50	84.9	84.0	101	99	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3817761      3817762

Parameter	Units	92633455005 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 <sub>3</sub>	mg/L	198	50	50	245	260	94	125	80-120	6	25	M1

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### QUALITY CONTROL DATA

Project: Plant McDonough CCR-Ash Pond  
Pace Project No.: 92633523

QC Batch: 733984 Analysis Method: SM 2320B-2011  
QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity  
Laboratory: Pace Analytical Services - Asheville  
Associated Lab Samples: 92633523002, 92633523003, 92633523004

METHOD BLANK: 3820179 Matrix: Water  
Associated Lab Samples: 92633523002, 92633523003, 92633523004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	ND	5.0	11/01/22 15:46	
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	mg/L	ND	5.0	11/01/22 15:46	

LABORATORY CONTROL SAMPLE: 3820180

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	50	51.4	103	80-120	

LABORATORY CONTROL SAMPLE: 3820181

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	50	50.4	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3820182 3820183

Parameter	Units	92633778001 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 <sub>3</sub>	mg/L	58.6	50	50	109	108	101	98	80-120	1	25	

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**QUALITY CONTROL DATA**

Project: Plant McDonough CCR-Ash Pond  
Pace Project No.: 92633523

QC Batch: 733691 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: 92633523001, 92633523002, 92633523003, 92633523004

METHOD BLANK: 3818694 Matrix: Water  
Associated Lab Samples: 92633523001, 92633523002, 92633523003, 92633523004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	10/31/22 01:59	
Fluoride	mg/L	ND	0.10	10/31/22 01:59	
Sulfate	mg/L	ND	1.0	10/31/22 01:59	

LABORATORY CONTROL SAMPLE: 3818695

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.1	100	90-110	
Fluoride	mg/L	2.5	2.6	104	90-110	
Sulfate	mg/L	50	50.4	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3818696 3818697

Parameter	Units	92633612001		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	1.1	50	50	50.5	50.2	99	98	90-110	1	10		
Fluoride	mg/L	0.14	2.5	2.5	2.7	2.6	101	100	90-110	0	10		
Sulfate	mg/L	ND	50	50	49.9	49.5	98	98	90-110	1	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3818698 3818699

Parameter	Units	92633523002		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	12.0	50	50	61.7	61.4	100	99	90-110	1	10		
Fluoride	mg/L	0.17	2.5	2.5	2.7	2.7	101	101	90-110	0	10		
Sulfate	mg/L	7.0	50	50	57.2	56.9	100	100	90-110	1	10		

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## QUALIFIERS

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92633523

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### 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.

MW Due to matrix interference, achieving a constant weight is not possible.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McDonough CCR-Ash Pond  
Pace Project No.: 92633523

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92633523001	DW_DS	EPA 3010A	733725	EPA 6010D	733811
92633523002	DW_US	EPA 3010A	733725	EPA 6010D	733811
92633523003	CR-0.2	EPA 3010A	733725	EPA 6010D	733811
92633523004	CR-0.5	EPA 3010A	733725	EPA 6010D	733811
92633523001	DW_DS	EPA 3005A	733721	EPA 6020B	733812
92633523002	DW_US	EPA 3005A	733721	EPA 6020B	733812
92633523003	CR-0.2	EPA 3005A	733760	EPA 6020B	733874
92633523004	CR-0.5	EPA 3005A	733760	EPA 6020B	733874
92633523001	DW_DS	SM 2540C-2015	734041		
92633523002	DW_US	SM 2540C-2015	734041		
92633523003	CR-0.2	SM 2540C-2015	734041		
92633523004	CR-0.5	SM 2540C-2015	734041		
92633523001	DW_DS	SM 2320B-2011	733493		
92633523002	DW_US	SM 2320B-2011	733984		
92633523003	CR-0.2	SM 2320B-2011	733984		
92633523004	CR-0.5	SM 2320B-2011	733984		
92633523001	DW_DS	EPA 300.0 Rev 2.1 1993	733691		
92633523002	DW_US	EPA 300.0 Rev 2.1 1993	733691		
92633523003	CR-0.2	EPA 300.0 Rev 2.1 1993	733691		
92633523004	CR-0.5	EPA 300.0 Rev 2.1 1993	733691		

### 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.



Page: 1 Of 1

**Section A**

Required Client Information:

Company: ARCADIS - Atlanta  
 Address: 2839 Paces Ferry Rd  
 Atlanta, GA 30339  
 Email: warren.johnson@pacelabs.com  
 Phone: 678.485.5298  
 Requested Due Date: 5 day TAT

**Section B**

Required Project Information:

Report To: Jolju Abraham, Allison Keeler, Ben Hodges  
 Copy To: Warren Johnson  
 Project Name: Plant McDonough  
 Project #:

**Section C**

Invoice Information:

Attention: Jolju Abraham  
 Company Name: GPC  
 Address:  
 Pace Quote:  
 Pace Project Manager: Mayla Parks@pacelabs.com  
 Pace Profile #: 2239

Regulatory Agency

W0#: 92633523

92633523

ITEM #	SAMPLE ID <small>One Character per box. (A-Z, 0-9 / - ) Sample Ids must be unique</small>	MATRIX Drinking Water Water Waste Water Product Soils/Sediment Air Wipe Other Tissue	CODE DW WT WW P SL OL WP AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analyses Test	Y/N																
						START DATE	START TIME	END DATE	END TIME			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other			CCR App III <sup>1</sup>	Major Ions <sup>2</sup>	Arsenic (As)	Cobalt (Co)	Lithium (Li)	Molybdenum (Mo)	Residual Chlorine (Y/N)									
1	DW_DS			WS	G	10/27/2022	1155																														
2	DW_US			WS	G	10/27/2022	1263																														
3	CR-0.2			WS	G	10/27/2022	1210																														
4	CR-0.5			WS	G	10/27/2022	1219																														
5																																					
6																																					
7																																					
8																																					
9																																					
10																																					
11																																					
12																																					
ADDITIONAL COMMENTS				RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS																					
CCR App III - Boron (B), Calcium (Ca), Chloride (Cl), Fluoride (F), Sulfate, Total Dissolved Solids Major Ions - Magnesium (Mg), Sodium (Na), Potassium (K), Total Alkalinity, Bicarbonate Alkalinity				WARREN JOHNSON / ARCADIS		10/27/2022		0950		BEN HODGES / ARCADIS		10/27/2022		0950																							
SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: <i>Garrett Garboush</i>																																					

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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:

Project #:

WO#: 92633523

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace  Other: \_\_\_\_\_

PM: MP Due Date: 11/04/22

CLIENT: GA-ArcadAt1

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 10/28/22 [Signature]

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:

3.3

Correction Factor: Add/Subtract (°C)

0.0

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C):

3.3

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 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: \_\_\_\_\_



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 #

WO#: 92633523

PM: MP

Due Date: 11/04/22

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

CLIENT: GA-ArcadAtI

\*\*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)	AG6U-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																														
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.

November 03, 2022

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

RE: Project: Plant McDonough CCR-Ash Pond  
Pace Project No.: 92633519

Dear Kelley Sharpe:

Enclosed are the analytical results for sample(s) received by the laboratory on October 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 - 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  
Laura Midkiff, Georgia Power  
Tina Sullivan, ERM



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92633519

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### **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

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### **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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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92633519

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92633519001	UT01_US	Water	10/27/22 09:58	10/28/22 09:50
92633519002	UT02	Water	10/27/22 10:25	10/28/22 09:50
92633519003	UT03	Water	10/27/22 10:13	10/28/22 09:50
92633519004	UT01_DS	Water	10/27/22 10:35	10/28/22 09:50
92633519005	CR-0.1	Water	10/27/22 11:50	10/28/22 09:50
92633519006	CR+0.2	Water	10/27/22 11:38	10/28/22 09:50
92633519007	CR+0.4	Water	10/27/22 11:30	10/28/22 09:50

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92633519

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92633519001	UT01_US	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	KH	3	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
92633519002	UT02	EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	KH	2	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
92633519003	UT03	SM 2320B-2011	SMS	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	KH	3	PASI-GA
92633519004	UT01_DS	SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	4	PASI-GA
92633519005	CR-0.1	EPA 6020B	KH	3	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92633519006	CR+0.2	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	KH	3	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
92633519007	CR+0.4	EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	KH	5	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	SMS	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.: 92633519

Sample: <b>UT01_US</b>	Lab ID: <b>92633519001</b>	Collected: 10/27/22 09:58	Received: 10/28/22 09:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D ATL ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	<b>3.6</b>	mg/L	0.20	1	10/31/22 10:32	10/31/22 15:53	7440-09-7	
Sodium	<b>11.9</b>	mg/L	1.0	1	10/31/22 10:32	10/31/22 15:53	7440-23-5	
Calcium	<b>14.2</b>	mg/L	1.0	1	10/31/22 10:32	10/31/22 15:53	7440-70-2	
Magnesium	<b>2.7</b>	mg/L	0.050	1	10/31/22 10:32	10/31/22 15:53	7439-95-4	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Arsenic	ND	mg/L	0.0050	1	10/31/22 10:06	10/31/22 19:40	7440-38-2	
Boron	<b>0.059</b>	mg/L	0.040	1	10/31/22 10:06	10/31/22 19:40	7440-42-8	
Molybdenum	ND	mg/L	0.010	1	10/31/22 10:06	10/31/22 19:40	7439-98-7	
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	<b>51.0</b>	mg/L	25.0	1		11/01/22 16:09		MW
<b>2320B Alkalinity</b>								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	<b>40.5</b>	mg/L	5.0	1		11/01/22 11:53		
Alkalinity, Total as CaCO <sub>3</sub>	<b>40.5</b>	mg/L	5.0	1		11/01/22 11:53		
<b>300.0 IC Anions 28 Days</b>								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	<b>11.8</b>	mg/L	1.0	1		10/31/22 03:34	16887-00-6	
Fluoride	<b>0.30</b>	mg/L	0.10	1		10/31/22 03:34	16984-48-8	
Sulfate	<b>11.9</b>	mg/L	1.0	1		10/31/22 03:34	14808-79-8	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond  
Pace Project No.: 92633519

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: UT02      Lab ID: 92633519002      Collected: 10/27/22 10:25      Received: 10/28/22 09:50      Matrix: Water</b>								
<b>6010D ATL ICP</b> Analytical Method: EPA 6010D      Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	<b>3.6</b>	mg/L	0.20	1	10/31/22 10:32	10/31/22 15:58	7440-09-7	
Sodium	<b>12.2</b>	mg/L	1.0	1	10/31/22 10:32	10/31/22 15:58	7440-23-5	
Calcium	<b>15.2</b>	mg/L	1.0	1	10/31/22 10:32	10/31/22 15:58	7440-70-2	
Magnesium	<b>2.8</b>	mg/L	0.050	1	10/31/22 10:32	10/31/22 15:58	7439-95-4	
<b>6020 MET ICPMS</b> Analytical Method: EPA 6020B      Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Arsenic	ND	mg/L	0.0050	1	10/31/22 10:06	10/31/22 19:46	7440-38-2	
Boron	<b>0.092</b>	mg/L	0.040	1	10/31/22 10:06	10/31/22 19:46	7440-42-8	
<b>2540C Total Dissolved Solids</b> Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	<b>116</b>	mg/L	25.0	1		11/01/22 16:09		MW
<b>2320B Alkalinity</b> Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	<b>42.7</b>	mg/L	5.0	1		11/01/22 11:59		
Alkalinity, Total as CaCO <sub>3</sub>	<b>42.7</b>	mg/L	5.0	1		11/01/22 11:59		
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	<b>11.6</b>	mg/L	1.0	1		10/31/22 03:49	16887-00-6	
Fluoride	<b>0.28</b>	mg/L	0.10	1		10/31/22 03:49	16984-48-8	
Sulfate	<b>13.6</b>	mg/L	1.0	1		10/31/22 03:49	14808-79-8	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond  
Pace Project No.: 92633519

Sample: UT03	Lab ID: 92633519003	Collected: 10/27/22 10:13	Received: 10/28/22 09:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D ATL ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	3.6	mg/L	0.20	1	10/31/22 10:32	10/31/22 16:03	7440-09-7	
Sodium	12.1	mg/L	1.0	1	10/31/22 10:32	10/31/22 16:03	7440-23-5	
Calcium	16.6	mg/L	1.0	1	10/31/22 10:32	10/31/22 16:03	7440-70-2	
Magnesium	3.4	mg/L	0.050	1	10/31/22 10:32	10/31/22 16:03	7439-95-4	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Arsenic	ND	mg/L	0.0050	1	10/31/22 10:06	10/31/22 19:52	7440-38-2	
Boron	0.21	mg/L	0.040	1	10/31/22 10:06	10/31/22 19:52	7440-42-8	
Molybdenum	ND	mg/L	0.010	1	10/31/22 10:06	10/31/22 19:52	7439-98-7	
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	92.0	mg/L	25.0	1		11/01/22 16:09		MW
<b>2320B Alkalinity</b>								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	43.5	mg/L	5.0	1		11/01/22 12:06		
Alkalinity, Total as CaCO <sub>3</sub>	43.5	mg/L	5.0	1		11/01/22 12:06		
<b>300.0 IC Anions 28 Days</b>								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	11.0	mg/L	1.0	1		10/31/22 04:05	16887-00-6	
Fluoride	0.27	mg/L	0.10	1		10/31/22 04:05	16984-48-8	
Sulfate	16.7	mg/L	1.0	1		10/31/22 04:05	14808-79-8	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond  
Pace Project No.: 92633519

Sample: UT01_DS	Lab ID: 92633519004	Collected: 10/27/22 10:35	Received: 10/28/22 09:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D ATL ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	3.4	mg/L	0.20	1	10/31/22 10:32	10/31/22 16:08	7440-09-7	
Sodium	11.1	mg/L	1.0	1	10/31/22 10:32	10/31/22 16:08	7440-23-5	
Calcium	15.1	mg/L	1.0	1	10/31/22 10:32	10/31/22 16:08	7440-70-2	
Magnesium	3.0	mg/L	0.050	1	10/31/22 10:32	10/31/22 16:08	7439-95-4	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Arsenic	ND	mg/L	0.0050	1	10/31/22 10:06	10/31/22 19:58	7440-38-2	
Boron	0.16	mg/L	0.040	1	10/31/22 10:06	10/31/22 19:58	7440-42-8	
Molybdenum	ND	mg/L	0.010	1	10/31/22 10:06	10/31/22 19:58	7439-98-7	
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	167	mg/L	25.0	1		11/01/22 16:09		D6,MW
<b>2320B Alkalinity</b>								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	46.6	mg/L	5.0	1		11/01/22 12:12		
Alkalinity, Total as CaCO3	46.6	mg/L	5.0	1		11/01/22 12:12		
<b>300.0 IC Anions 28 Days</b>								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	10.9	mg/L	1.0	1		10/31/22 04:21	16887-00-6	
Fluoride	0.26	mg/L	0.10	1		10/31/22 04:21	16984-48-8	
Sulfate	15.3	mg/L	1.0	1		10/31/22 04:21	14808-79-8	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond  
Pace Project No.: 92633519

Sample: CR-0.1	Lab ID: 92633519005	Collected: 10/27/22 11:50	Received: 10/28/22 09:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D ATL ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	4.3	mg/L	0.20	1	10/31/22 10:32	10/31/22 16:12	7440-09-7	
Sodium	13.8	mg/L	1.0	1	10/31/22 10:32	10/31/22 16:12	7440-23-5	
Calcium	8.1	mg/L	1.0	1	10/31/22 10:32	10/31/22 16:12	7440-70-2	
Magnesium	2.4	mg/L	0.050	1	10/31/22 10:32	10/31/22 16:12	7439-95-4	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Boron	0.041	mg/L	0.040	1	10/31/22 10:06	10/31/22 20:16	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	10/31/22 10:06	10/31/22 20:16	7440-48-4	
Lithium	ND	mg/L	0.030	1	10/31/22 10:06	10/31/22 20:16	7439-93-2	
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	42.0	mg/L	25.0	1		11/01/22 16:09		MW
<b>2320B Alkalinity</b>								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	27.4	mg/L	5.0	1		11/01/22 12:19		
Alkalinity, Total as CaCO <sub>3</sub>	27.4	mg/L	5.0	1		11/01/22 12:19		
<b>300.0 IC Anions 28 Days</b>								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	12.7	mg/L	1.0	1		10/31/22 05:08	16887-00-6	
Fluoride	0.19	mg/L	0.10	1		10/31/22 05:08	16984-48-8	
Sulfate	9.1	mg/L	1.0	1		10/31/22 05:08	14808-79-8	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond  
Pace Project No.: 92633519

Sample: CR+0.2		Lab ID: 92633519006		Collected: 10/27/22 11:38	Received: 10/28/22 09:50	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D ATL ICP</b>		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA						
Potassium	4.3	mg/L	0.20	1	10/31/22 10:32	10/31/22 16:17	7440-09-7	
Sodium	12.9	mg/L	1.0	1	10/31/22 10:32	10/31/22 16:17	7440-23-5	
Calcium	7.8	mg/L	1.0	1	10/31/22 10:32	10/31/22 16:17	7440-70-2	
Magnesium	2.3	mg/L	0.050	1	10/31/22 10:32	10/31/22 16:17	7439-95-4	
<b>6020 MET ICPMS</b>		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA						
Boron	ND	mg/L	0.040	1	10/31/22 10:06	10/31/22 20:22	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	10/31/22 10:06	10/31/22 20:22	7440-48-4	
Lithium	ND	mg/L	0.030	1	10/31/22 10:06	10/31/22 20:22	7439-93-2	
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA						
Total Dissolved Solids	36.0	mg/L	25.0	1		11/01/22 16:09		MW
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville						
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	27.0	mg/L	5.0	1		11/01/22 12:25		
Alkalinity, Total as CaCO <sub>3</sub>	27.0	mg/L	5.0	1		11/01/22 12:25		
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville						
Chloride	11.9	mg/L	1.0	1		10/31/22 05:24	16887-00-6	
Fluoride	0.18	mg/L	0.10	1		10/31/22 05:24	16984-48-8	
Sulfate	7.7	mg/L	1.0	1		10/31/22 05:24	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond  
Pace Project No.: 92633519

Sample: CR+0.4	Lab ID: 92633519007	Collected: 10/27/22 11:30	Received: 10/28/22 09:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D ATL ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	4.3	mg/L	0.20	1	10/31/22 10:32	10/31/22 16:22	7440-09-7	
Sodium	12.8	mg/L	1.0	1	10/31/22 10:32	10/31/22 16:22	7440-23-5	
Calcium	7.7	mg/L	1.0	1	10/31/22 10:32	10/31/22 16:22	7440-70-2	
Magnesium	2.3	mg/L	0.050	1	10/31/22 10:32	10/31/22 16:22	7439-95-4	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Arsenic	ND	mg/L	0.0050	1	10/31/22 10:06	10/31/22 20:28	7440-38-2	
Boron	ND	mg/L	0.040	1	10/31/22 10:06	10/31/22 20:28	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	10/31/22 10:06	10/31/22 20:28	7440-48-4	
Lithium	ND	mg/L	0.030	1	10/31/22 10:06	10/31/22 20:28	7439-93-2	
Molybdenum	ND	mg/L	0.010	1	10/31/22 10:06	10/31/22 20:28	7439-98-7	
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	55.0	mg/L	25.0	1		11/01/22 16:09		
<b>2320B Alkalinity</b>								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	27.3	mg/L	5.0	1		11/01/22 12:31		
Alkalinity, Total as CaCO <sub>3</sub>	27.3	mg/L	5.0	1		11/01/22 12:31		
<b>300.0 IC Anions 28 Days</b>								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	11.7	mg/L	1.0	1		10/31/22 05:40	16887-00-6	
Fluoride	0.18	mg/L	0.10	1		10/31/22 05:40	16984-48-8	
Sulfate	7.6	mg/L	1.0	1		10/31/22 05:40	14808-79-8	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Plant McDonough CCR-Ash Pond  
Pace Project No.: 92633519

QC Batch: 733725 Analysis Method: EPA 6010D  
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL  
Laboratory: Pace Analytical Services - Peachtree Corners, GA  
Associated Lab Samples: 92633519001, 92633519002, 92633519003, 92633519004, 92633519005, 92633519006, 92633519007

METHOD BLANK: 3818800 Matrix: Water  
Associated Lab Samples: 92633519001, 92633519002, 92633519003, 92633519004, 92633519005, 92633519006, 92633519007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	10/31/22 14:27	
Magnesium	mg/L	ND	0.050	10/31/22 14:27	
Potassium	mg/L	ND	0.20	10/31/22 14:27	
Sodium	mg/L	ND	1.0	10/31/22 14:27	

LABORATORY CONTROL SAMPLE: 3818801

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	103	80-120	
Potassium	mg/L	1	1.0	102	80-120	
Sodium	mg/L	1	1.1	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3818802 3818803

Parameter	Units	92633366005 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Calcium	mg/L	114000 ug/L	1	116	1	118	196	385	75-125	2	20	M1
Magnesium	mg/L	27400 ug/L	1	28.8	1	29.3	138	185	75-125	2	20	M1
Potassium	mg/L	36900 ug/L	1	38.3	1	39.1	143	222	75-125	2	20	M1
Sodium	mg/L	266000 ug/L	1	270	1	275	337	867	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.: 92633519

QC Batch: 733721 Analysis Method: EPA 6020B  
 QC Batch Method: EPA 3005A Analysis Description: 6020 MET  
 Laboratory: Pace Analytical Services - Peachtree Corners, GA  
 Associated Lab Samples: 92633519001, 92633519002, 92633519003, 92633519004, 92633519005, 92633519006, 92633519007

METHOD BLANK: 3818794 Matrix: Water  
 Associated Lab Samples: 92633519001, 92633519002, 92633519003, 92633519004, 92633519005, 92633519006, 92633519007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.0050	10/31/22 17:53	
Boron	mg/L	ND	0.040	10/31/22 17:53	
Cobalt	mg/L	ND	0.0050	10/31/22 17:53	
Lithium	mg/L	ND	0.030	10/31/22 17:53	
Molybdenum	mg/L	ND	0.010	10/31/22 17:53	

LABORATORY CONTROL SAMPLE: 3818795

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.1	0.10	100	80-120	
Boron	mg/L	1	1.1	108	80-120	
Cobalt	mg/L	0.1	0.11	105	80-120	
Lithium	mg/L	0.1	0.10	104	80-120	
Molybdenum	mg/L	0.1	0.10	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3818796 3818797

Parameter	Units	92633223001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Spike Conc.	MSD Spike Conc.	MS Result						
Arsenic	mg/L	2.3J ug/L	0.1	0.1	0.10	0.10	102	99	75-125	3	20	
Boron	mg/L	24.7J ug/L	1	1	1.1	1.1	105	108	75-125	3	20	
Cobalt	mg/L	6.9J ug/L	0.1	0.1	0.11	0.11	104	101	75-125	3	20	
Lithium	mg/L	ND	0.1	0.1	0.10	0.10	101	104	75-125	2	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.097	103	96	75-125	7	20	

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**QUALITY CONTROL DATA**

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92633519

QC Batch: 734041 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: 92633519001, 92633519002, 92633519003, 92633519004, 92633519005, 92633519006, 92633519007

METHOD BLANK: 3820511 Matrix: Water  
 Associated Lab Samples: 92633519001, 92633519002, 92633519003, 92633519004, 92633519005, 92633519006, 92633519007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	11/01/22 16:09	

LABORATORY CONTROL SAMPLE: 3820512

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	379	95	80-120	

SAMPLE DUPLICATE: 3820513

Parameter	Units	92632809001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2370	2160	9	10	

SAMPLE DUPLICATE: 3820514

Parameter	Units	92633519004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	167	74.0	77	10	D6,MW

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### QUALITY CONTROL DATA

Project: Plant McDonough CCR-Ash Pond  
Pace Project No.: 92633519

QC Batch: 733493 Analysis Method: SM 2320B-2011  
QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity  
Laboratory: Pace Analytical Services - Asheville  
Associated Lab Samples: 92633519001, 92633519002, 92633519003, 92633519004, 92633519005, 92633519006, 92633519007

METHOD BLANK: 3817756 Matrix: Water  
Associated Lab Samples: 92633519001, 92633519002, 92633519003, 92633519004, 92633519005, 92633519006, 92633519007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	11/01/22 11:33	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	11/01/22 11:33	

LABORATORY CONTROL SAMPLE: 3817757

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	55.0	110	80-120	

LABORATORY CONTROL SAMPLE: 3817758

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.5	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3817759 3817760

Parameter	Units	92633455004 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	34.3	50	50	84.9	84.0	101	99	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3817761 3817762

Parameter	Units	92633455005 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	198	50	50	245	260	94	125	80-120	6	25 M1	

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### QUALITY CONTROL DATA

Project: Plant McDonough CCR-Ash Pond  
Pace Project No.: 92633519

QC Batch: 733691 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: 92633519001, 92633519002, 92633519003, 92633519004, 92633519005, 92633519006, 92633519007

METHOD BLANK: 3818694 Matrix: Water  
Associated Lab Samples: 92633519001, 92633519002, 92633519003, 92633519004, 92633519005, 92633519006, 92633519007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	10/31/22 01:59	
Fluoride	mg/L	ND	0.10	10/31/22 01:59	
Sulfate	mg/L	ND	1.0	10/31/22 01:59	

LABORATORY CONTROL SAMPLE: 3818695

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.1	100	90-110	
Fluoride	mg/L	2.5	2.6	104	90-110	
Sulfate	mg/L	50	50.4	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3818696 3818697

Parameter	Units	92633612001		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	1.1	50	50	50.5	50.2	99	98	90-110	1	10		
Fluoride	mg/L	0.14	2.5	2.5	2.7	2.6	101	100	90-110	0	10		
Sulfate	mg/L	ND	50	50	49.9	49.5	98	98	90-110	1	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3818698 3818699

Parameter	Units	92633523002		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	12.0	50	50	61.7	61.4	100	99	90-110	1	10		
Fluoride	mg/L	0.17	2.5	2.5	2.7	2.7	101	101	90-110	0	10		
Sulfate	mg/L	7.0	50	50	57.2	56.9	100	100	90-110	1	10		

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## QUALIFIERS

Project: Plant McDonough CCR-Ash Pond  
Pace Project No.: 92633519

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### 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.

MW Due to matrix interference, achieving a constant weight is not possible.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92633519

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92633519001	UT01_US	EPA 3010A	733725	EPA 6010D	733811
92633519002	UT02	EPA 3010A	733725	EPA 6010D	733811
92633519003	UT03	EPA 3010A	733725	EPA 6010D	733811
92633519004	UT01_DS	EPA 3010A	733725	EPA 6010D	733811
92633519005	CR-0.1	EPA 3010A	733725	EPA 6010D	733811
92633519006	CR+0.2	EPA 3010A	733725	EPA 6010D	733811
92633519007	CR+0.4	EPA 3010A	733725	EPA 6010D	733811
92633519001	UT01_US	EPA 3005A	733721	EPA 6020B	733812
92633519002	UT02	EPA 3005A	733721	EPA 6020B	733812
92633519003	UT03	EPA 3005A	733721	EPA 6020B	733812
92633519004	UT01_DS	EPA 3005A	733721	EPA 6020B	733812
92633519005	CR-0.1	EPA 3005A	733721	EPA 6020B	733812
92633519006	CR+0.2	EPA 3005A	733721	EPA 6020B	733812
92633519007	CR+0.4	EPA 3005A	733721	EPA 6020B	733812
92633519001	UT01_US	SM 2540C-2015	734041		
92633519002	UT02	SM 2540C-2015	734041		
92633519003	UT03	SM 2540C-2015	734041		
92633519004	UT01_DS	SM 2540C-2015	734041		
92633519005	CR-0.1	SM 2540C-2015	734041		
92633519006	CR+0.2	SM 2540C-2015	734041		
92633519007	CR+0.4	SM 2540C-2015	734041		
92633519001	UT01_US	SM 2320B-2011	733493		
92633519002	UT02	SM 2320B-2011	733493		
92633519003	UT03	SM 2320B-2011	733493		
92633519004	UT01_DS	SM 2320B-2011	733493		
92633519005	CR-0.1	SM 2320B-2011	733493		
92633519006	CR+0.2	SM 2320B-2011	733493		
92633519007	CR+0.4	SM 2320B-2011	733493		
92633519001	UT01_US	EPA 300.0 Rev 2.1 1993	733691		
92633519002	UT02	EPA 300.0 Rev 2.1 1993	733691		
92633519003	UT03	EPA 300.0 Rev 2.1 1993	733691		
92633519004	UT01_DS	EPA 300.0 Rev 2.1 1993	733691		
92633519005	CR-0.1	EPA 300.0 Rev 2.1 1993	733691		
92633519006	CR+0.2	EPA 300.0 Rev 2.1 1993	733691		
92633519007	CR+0.4	EPA 300.0 Rev 2.1 1993	733691		

### 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: Section B Required Project Information: Section C Invoice Information:

Company: ARCADIS - Atlanta	Report To: Jiju Abraham, Allison Keefe, Ben Hodges	Attention: Jiju Abraham
Address: 2839 Paces Ferry Rd	Copy To: Warren Johnson	Company Name: GPC
Atlanta, GA 30039	Purchase Order #: SCS10382775	Address:
Email: warren.johnson@arcadis.com	Plant Name: Plant McDonough	Paces Project Manager: Mayla Parks@paceslabs.com,
Phone: 678.495.5298	Project #:	Paces Profile #: 2239
Requested Due Date: 5 day TAT		

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9, -, ) Sample ids must be unique	MATRIX Drinking Water Waste Water Wastewater Product Stormwater Other	CODE DN WT WW P SL OL WP AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Requested Analyte Filtered (Y/N)	Residual Chlorine (Y/N)										
						START DATE TIME	END DATE TIME			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol			Other	Analytes Test								
1	UT01 US			WS	G	10/27/2022	0958																					
2	UT02			WS	G	10/27/2022	1025																					
3	UT03			WS	G	10/27/2022	1013																					
4	UT01 DS			WS	G	10/27/2022	1035																					
5	CR-0.1			WS	G	10/27/2022	1150																					
6	CR+0.2			WS	G	10/27/2022	1138																					
7	CR+0.4			WS	G	10/27/2022	1130																					
8																												
9																												
10																												
11																												
12																												

ADDITIONAL COMMENTS				RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS	
CCR App III <sup>1</sup> - Boron (B), Calcium(Ca), Chloride (Cl), Fluoride (F), Sulfate, Total Dissolved Solids Major Ions - Magnesium (Mg), Sodium (Na), Potassium (K), Total Alkalinity, Bicarbonates Alkalinity				Warren Johnson ARCADIS		10/27/22	0958	Charles Park Paces		10/27/22	0950		

WO#: 92633519



SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: Charles Park	DATE: 10/18
---	-------------



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:

Project #:

WO#: 92633519

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace  Other: \_\_\_\_\_

PM: MP Due Date: 11/04/22 CLIENT: GA-ArcadAt1

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 10/28/22

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: 3.3 Correction Factor: 0.0 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): 3.3

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 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

**WO# : 92633519**

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

Project #

PM: MP

Due Date: 11/04/22

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

CLIENT: GA-ArcadAt1

\*\*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)	
1	2	1																										
2	2	1																										
3	2	1																										
4	2	1																										
5	2	1																										
6	2	1																										
7	2	1																										
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.

**APPENDIX B**

**Analytical Results, January-February 2023**



July 28, 2023

Andrea McClure  
WSP/Golder  
5170 Peachtree Road  
Building 100, Suite 300  
Atlanta, GA 30341

RE: Project: Plant McD Background Monitorin  
Pace Project No.: 92650179

Dear Andrea McClure:

Enclosed are the analytical results for sample(s) received by the laboratory on February 02, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,

Bonnie Vang  
bonnie.vang@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: Stephen Benda, Southern Company  
Daniela Herrera, Golder  
Ben Hodges, Georgia Power-CCR  
J. Shelby Mobley, Southern Company  
Charles Norton, Southern Company  
Dawn Prell, WSP USA E&I Inc\_Atlanta  
Yong Cheng Soo, WSP/Golder



## REPORT OF LABORATORY ANALYSIS

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### CERTIFICATIONS

Project: Plant McD Background Monitorin

Pace Project No.: 92650179

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**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

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**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

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**Pace Analytical Services Peachtree Corners**

110 Technology Pkwy, Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

Virginia Certification #: 460204

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### REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: Plant McD Background Monitorin  
Pace Project No.: 92650179

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92650179001	MCD-DGWA-70A	Water	01/31/23 16:20	02/02/23 11:36
92650179002	MCD-DGWA-71	Water	01/31/23 16:28	02/02/23 11:36
92650179003	MCD-DGWA-53	Water	02/01/23 12:50	02/02/23 11:36

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Plant McD Background Monitorin

Pace Project No.: 92650179

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92650179001	MCD-DGWA-70A	EPA 6010D	MS	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92650179002	MCD-DGWA-71	EPA 6010D	MS	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92650179003	MCD-DGWA-53	EPA 6010D	MS	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		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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**SUMMARY OF DETECTION**

Project: Plant McD Background Monitorin

Pace Project No.: 92650179

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92650179001</b>	<b>MCD-DGWA-70A</b>					
	Performed by	Client			02/14/23 17:54	
	Collected Date	01/31/23			02/14/23 17:54	
	Collected Time	16:25			02/14/23 17:54	
	pH	5.59	Std. Units		02/14/23 17:54	
EPA 6010D	Iron	0.038J	mg/L	0.040	02/13/23 19:48	
EPA 6010D	Potassium	1.7	mg/L	0.20	02/13/23 19:48	
EPA 6010D	Sodium	3.5	mg/L	1.0	02/13/23 19:48	BC
EPA 6010D	Calcium	6.2	mg/L	1.0	02/13/23 19:48	
EPA 6010D	Magnesium	2.4	mg/L	0.050	02/13/23 19:48	
EPA 6020B	Barium	0.041	mg/L	0.0050	02/16/23 13:01	
EPA 6020B	Beryllium	0.000094J	mg/L	0.00050	02/16/23 13:01	
EPA 6020B	Boron	0.011J	mg/L	0.040	02/16/23 13:01	
SM 2540C-2015	Total Dissolved Solids	163	mg/L	25.0	02/03/23 15:50	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	29.7	mg/L	5.0	02/04/23 17:39	
SM 2320B-2011	Alkalinity, Total as CaCO3	29.7	mg/L	5.0	02/04/23 17:39	
EPA 300.0 Rev 2.1 1993	Chloride	2.2	mg/L	1.0	02/06/23 18:03	
EPA 300.0 Rev 2.1 1993	Fluoride	0.053J	mg/L	0.10	02/06/23 18:03	
<b>92650179002</b>	<b>MCD-DGWA-71</b>					
	Performed by	Client			02/14/23 17:54	
	Collected Date	01/31/23			02/14/23 17:54	
	Collected Time	16:33			02/14/23 17:54	
	pH	5.78	Std. Units		02/14/23 17:54	
EPA 6010D	Potassium	0.73	mg/L	0.20	02/13/23 19:53	BC
EPA 6010D	Sodium	7.5	mg/L	1.0	02/13/23 19:53	
EPA 6010D	Calcium	5.7	mg/L	1.0	02/13/23 19:53	
EPA 6010D	Magnesium	0.79	mg/L	0.050	02/13/23 19:53	
EPA 6020B	Barium	0.028	mg/L	0.0050	02/16/23 13:07	
EPA 6020B	Beryllium	0.00011J	mg/L	0.00050	02/16/23 13:07	
EPA 6020B	Boron	0.0097J	mg/L	0.040	02/16/23 13:07	
EPA 6020B	Lithium	0.0014J	mg/L	0.030	02/16/23 13:07	
SM 2540C-2015	Total Dissolved Solids	87.0	mg/L	25.0	02/03/23 15:51	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	20.3	mg/L	5.0	02/04/23 17:46	
SM 2320B-2011	Alkalinity, Total as CaCO3	20.3	mg/L	5.0	02/04/23 17:46	
EPA 300.0 Rev 2.1 1993	Chloride	7.3	mg/L	1.0	02/06/23 18:28	
EPA 300.0 Rev 2.1 1993	Fluoride	0.050J	mg/L	0.10	02/06/23 18:28	
EPA 300.0 Rev 2.1 1993	Sulfate	6.8	mg/L	1.0	02/06/23 18:28	
<b>92650179003</b>	<b>MCD-DGWA-53</b>					
	Performed by	Client			02/14/23 17:55	
	Collected Date	2/1/23			02/14/23 17:55	
	Collected Time	12:55			02/14/23 17:55	
	pH	6.42	Std. Units		02/14/23 17:55	
EPA 6010D	Iron	8.4	mg/L	0.040	02/13/23 19:58	
EPA 6010D	Potassium	3.3	mg/L	0.20	02/13/23 19:58	BC
EPA 6010D	Sodium	7.7	mg/L	1.0	02/13/23 19:58	
EPA 6010D	Calcium	14.1	mg/L	1.0	02/13/23 19:58	
EPA 6010D	Magnesium	4.6	mg/L	0.050	02/13/23 19:58	

**REPORT OF LABORATORY ANALYSIS**

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### SUMMARY OF DETECTION

Project: Plant McD Background Monitorin

Pace Project No.: 92650179

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92650179003</b>	<b>MCD-DGWA-53</b>					
EPA 6020B	Arsenic	0.0029J	mg/L	0.0050	02/16/23 13:13	
EPA 6020B	Barium	0.089	mg/L	0.0050	02/16/23 13:13	
EPA 6020B	Beryllium	0.00016J	mg/L	0.00050	02/16/23 13:13	
EPA 6020B	Boron	0.051	mg/L	0.040	02/17/23 16:31	
EPA 6020B	Cadmium	0.00019J	mg/L	0.00050	02/16/23 13:13	
EPA 6020B	Cobalt	0.0080	mg/L	0.0050	02/16/23 13:13	
EPA 6020B	Lithium	0.0088J	mg/L	0.030	02/16/23 13:13	
EPA 6020B	Molybdenum	0.023	mg/L	0.010	02/16/23 13:13	
SM 2540C-2015	Total Dissolved Solids	116	mg/L	25.0	02/05/23 14:06	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	75.1	mg/L	5.0	02/07/23 14:56	
SM 2320B-2011	Alkalinity, Total as CaCO3	75.1	mg/L	5.0	02/07/23 14:56	
EPA 300.0 Rev 2.1 1993	Chloride	1.9	mg/L	1.0	02/06/23 18:54	
EPA 300.0 Rev 2.1 1993	Fluoride	0.10	mg/L	0.10	02/06/23 18:54	
EPA 300.0 Rev 2.1 1993	Sulfate	13.3	mg/L	1.0	02/06/23 18:54	

### REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Plant McD Background Monitorin  
Pace Project No.: 92650179

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**Date:** July 28, 2023

Georgia Power EQulS Database Manager requested Pace Project Manager remove the sample matrix and date from the Sample IDs. This update ensures sample nomenclature is followed on final PDF and EDD for successful upload of laboratory data into the Georgia Power EQulS database

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Plant McD Background Monitorin  
Pace Project No.: 92650179

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**Method:** EPA 6010D  
**Description:** 6010D ATL ICP  
**Client:** Georgia Power  
**Date:** July 28, 2023

**General Information:**

3 samples were analyzed for EPA 6010D by Pace Analytical Services Peachtree Corners, GA. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**

The samples were prepared in accordance with EPA 3010A with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Internal Standards:**

All internal standards were within QC limits with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Plant McD Background Monitorin

Pace Project No.: 92650179

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**Method:** EPA 6020B

**Description:** 6020 MET ICPMS

**Client:** Georgia Power

**Date:** July 28, 2023

**General Information:**

3 samples were analyzed for EPA 6020B by Pace Analytical Services Peachtree Corners, GA. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**

The samples were prepared in accordance with EPA 3005A with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Internal Standards:**

All internal standards were within QC limits with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Plant McD Background Monitorin  
Pace Project No.: 92650179

---

**Method:** EPA 7470A  
**Description:** 7470 Mercury  
**Client:** Georgia Power  
**Date:** July 28, 2023

**General Information:**

3 samples were analyzed for EPA 7470A by Pace Analytical Services Peachtree Corners, GA. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**

The samples were prepared in accordance with EPA 7470A with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Internal Standards:**

All internal standards were within QC limits with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Plant McD Background Monitorin  
Pace Project No.: 92650179

---

**Method:** SM 2540C-2015  
**Description:** 2540C Total Dissolved Solids  
**Client:** Georgia Power  
**Date:** July 28, 2023

### General Information:

3 samples were analyzed for SM 2540C-2015 by Pace Analytical Services Peachtree Corners, GA. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: 753740

D6: The precision between the sample and sample duplicate exceeded laboratory control limits.

- DUP (Lab ID: 3916055)
- Total Dissolved Solids

### Additional Comments:

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Plant McD Background Monitorin

Pace Project No.: 92650179

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**Method:** SM 2320B-2011

**Description:** 2320B Alkalinity

**Client:** Georgia Power

**Date:** July 28, 2023

### General Information:

3 samples were analyzed for SM 2320B-2011 by Pace Analytical Services Asheville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 753922

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92649235035,92649235036

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

- MS (Lab ID: 3916728)
  - Alkalinity, Total as CaCO<sub>3</sub>
- MS (Lab ID: 3916730)
  - Alkalinity, Total as CaCO<sub>3</sub>
- MSD (Lab ID: 3916729)
  - Alkalinity, Total as CaCO<sub>3</sub>

### Additional Comments:

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Plant McD Background Monitorin  
Pace Project No.: 92650179

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**Method:** EPA 300.0 Rev 2.1 1993  
**Description:** 300.0 IC Anions 28 Days  
**Client:** Georgia Power  
**Date:** July 28, 2023

### General Information:

3 samples were analyzed for EPA 300.0 Rev 2.1 1993 by Pace Analytical Services Asheville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 753991

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92650019010,92650181004

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

- MS (Lab ID: 3916902)
  - Fluoride
- MS (Lab ID: 3916904)
  - Sulfate
- MSD (Lab ID: 3916903)
  - Fluoride
- MSD (Lab ID: 3916905)
  - Sulfate

### Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Plant McD Background Monitorin

Pace Project No.: 92650179

**Sample: MCD-DGWA-70A**      **Lab ID: 92650179001**      Collected: 01/31/23 16:20      Received: 02/02/23 11:36      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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**Monitoring Well Data**

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>Client</b>				1		02/14/23 17:54		
Collected Date	<b>01/31/23</b>				1		02/14/23 17:54		
Collected Time	<b>16:25</b>				1		02/14/23 17:54		
pH	<b>5.59</b>	Std. Units			1		02/14/23 17:54		

**6010D ATL ICP**

Analytical Method: EPA 6010D      Preparation Method: EPA 3010A  
Pace Analytical Services - Peachtree Corners, GA

Iron	<b>0.038J</b>	mg/L	0.040	0.025	1	02/10/23 14:52	02/13/23 19:48	7439-89-6	
Potassium	<b>1.7</b>	mg/L	0.20	0.15	1	02/10/23 14:52	02/13/23 19:48	7440-09-7	
Sodium	<b>3.5</b>	mg/L	1.0	0.58	1	02/10/23 14:52	02/13/23 19:48	7440-23-5	BC
Calcium	<b>6.2</b>	mg/L	1.0	0.12	1	02/10/23 14:52	02/13/23 19:48	7440-70-2	
Magnesium	<b>2.4</b>	mg/L	0.050	0.012	1	02/10/23 14:52	02/13/23 19:48	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	02/15/23 10:18	02/16/23 13:01	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/15/23 10:18	02/16/23 13:01	7440-38-2	
Barium	<b>0.041</b>	mg/L	0.0050	0.00067	1	02/15/23 10:18	02/16/23 13:01	7440-39-3	
Beryllium	<b>0.000094J</b>	mg/L	0.00050	0.000054	1	02/15/23 10:18	02/16/23 13:01	7440-41-7	
Boron	<b>0.011J</b>	mg/L	0.040	0.0086	1	02/15/23 10:18	02/16/23 13:01	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/15/23 10:18	02/16/23 13:01	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/15/23 10:18	02/16/23 13:01	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/15/23 10:18	02/16/23 13:01	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/15/23 10:18	02/16/23 13:01	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/15/23 10:18	02/16/23 13:01	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/15/23 10:18	02/16/23 13:01	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/15/23 10:18	02/16/23 13:01	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/15/23 10:18	02/16/23 13:01	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	02/08/23 15:40	02/09/23 12:47	7439-97-6	
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**2540C Total Dissolved Solids**

Analytical Method: SM 2540C-2015  
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	<b>163</b>	mg/L	25.0	25.0	1		02/03/23 15:50		
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**2320B Alkalinity**

Analytical Method: SM 2320B-2011  
Pace Analytical Services - Asheville

Alkalinity,Bicarbonate (CaCO3)	<b>29.7</b>	mg/L	5.0	5.0	1		02/04/23 17:39		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/04/23 17:39		
Alkalinity, Total as CaCO3	<b>29.7</b>	mg/L	5.0	5.0	1		02/04/23 17:39		

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Plant McD Background Monitorin  
 Pace Project No.: 92650179

Sample: MCD-DGWA-70A		Lab ID: 92650179001		Collected: 01/31/23 16:20		Received: 02/02/23 11:36		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	<b>2.2</b>	mg/L	1.0	0.60	1		02/06/23 18:03	16887-00-6	
Fluoride	<b>0.053J</b>	mg/L	0.10	0.050	1		02/06/23 18:03	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/06/23 18:03	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant McD Background Monitorin

Pace Project No.: 92650179

Sample: MCD-DGWA-71 Lab ID: 92650179002 Collected: 01/31/23 16:28 Received: 02/02/23 11:36 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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#### Monitoring Well Data

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	Client				1		02/14/23 17:54		
Collected Date	01/31/23				1		02/14/23 17:54		
Collected Time	16:33				1		02/14/23 17:54		
pH	5.78	Std. Units			1		02/14/23 17:54		

#### 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	02/10/23 14:52	02/13/23 19:53	7439-89-6	
Potassium	0.73	mg/L	0.20	0.15	1	02/10/23 14:52	02/13/23 19:53	7440-09-7	BC
Sodium	7.5	mg/L	1.0	0.58	1	02/10/23 14:52	02/13/23 19:53	7440-23-5	
Calcium	5.7	mg/L	1.0	0.12	1	02/10/23 14:52	02/13/23 19:53	7440-70-2	
Magnesium	0.79	mg/L	0.050	0.012	1	02/10/23 14:52	02/13/23 19:53	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	02/15/23 10:18	02/16/23 13:07	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/15/23 10:18	02/16/23 13:07	7440-38-2	
Barium	0.028	mg/L	0.0050	0.00067	1	02/15/23 10:18	02/16/23 13:07	7440-39-3	
Beryllium	0.00011J	mg/L	0.00050	0.000054	1	02/15/23 10:18	02/16/23 13:07	7440-41-7	
Boron	0.0097J	mg/L	0.040	0.0086	1	02/15/23 10:18	02/16/23 13:07	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/15/23 10:18	02/16/23 13:07	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/15/23 10:18	02/16/23 13:07	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/15/23 10:18	02/16/23 13:07	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/15/23 10:18	02/16/23 13:07	7439-92-1	
Lithium	0.0014J	mg/L	0.030	0.00073	1	02/15/23 10:18	02/16/23 13:07	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/15/23 10:18	02/16/23 13:07	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/15/23 10:18	02/16/23 13:07	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/15/23 10:18	02/16/23 13:07	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	0.00013	1	02/08/23 15:40	02/09/23 12:50	7439-97-6	
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#### 2540C Total Dissolved Solids

Analytical Method: SM 2540C-2015  
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	87.0	mg/L	25.0	25.0	1		02/03/23 15:51		
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#### 2320B Alkalinity

Analytical Method: SM 2320B-2011  
Pace Analytical Services - Asheville

Alkalinity,Bicarbonate (CaCO3)	20.3	mg/L	5.0	5.0	1		02/04/23 17:46		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/04/23 17:46		
Alkalinity, Total as CaCO3	20.3	mg/L	5.0	5.0	1		02/04/23 17:46		

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Plant McD Background Monitorin

Pace Project No.: 92650179

Sample: MCD-DGWA-71 Lab ID: 92650179002 Collected: 01/31/23 16:28 Received: 02/02/23 11:36 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	7.3	mg/L	1.0	0.60	1		02/06/23 18:28	16887-00-6	
Fluoride	0.050J	mg/L	0.10	0.050	1		02/06/23 18:28	16984-48-8	
Sulfate	6.8	mg/L	1.0	0.50	1		02/06/23 18:28	14808-79-8	

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## ANALYTICAL RESULTS

Project: Plant McD Background Monitorin

Pace Project No.: 92650179

Sample: MCD-DGWA-53		Lab ID: 92650179003		Collected: 02/01/23 12:50		Received: 02/02/23 11:36		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Monitoring Well Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Client</b>				1		02/14/23 17:55		
Collected Date	<b>2/1/23</b>				1		02/14/23 17:55		
Collected Time	<b>12:55</b>				1		02/14/23 17:55		
pH	<b>6.42</b>	Std. Units			1		02/14/23 17:55		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	<b>8.4</b>	mg/L	0.040	0.025	1	02/10/23 14:52	02/13/23 19:58	7439-89-6	
Potassium	<b>3.3</b>	mg/L	0.20	0.15	1	02/10/23 14:52	02/13/23 19:58	7440-09-7	BC
Sodium	<b>7.7</b>	mg/L	1.0	0.58	1	02/10/23 14:52	02/13/23 19:58	7440-23-5	
Calcium	<b>14.1</b>	mg/L	1.0	0.12	1	02/10/23 14:52	02/13/23 19:58	7440-70-2	
Magnesium	<b>4.6</b>	mg/L	0.050	0.012	1	02/10/23 14:52	02/13/23 19:58	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/15/23 10:18	02/16/23 13:13	7440-36-0	
Arsenic	<b>0.0029J</b>	mg/L	0.0050	0.0022	1	02/15/23 10:18	02/16/23 13:13	7440-38-2	
Barium	<b>0.089</b>	mg/L	0.0050	0.00067	1	02/15/23 10:18	02/16/23 13:13	7440-39-3	
Beryllium	<b>0.00016J</b>	mg/L	0.00050	0.000054	1	02/15/23 10:18	02/16/23 13:13	7440-41-7	
Boron	<b>0.051</b>	mg/L	0.040	0.0086	1	02/15/23 10:18	02/17/23 16:31	7440-42-8	
Cadmium	<b>0.00019J</b>	mg/L	0.00050	0.00011	1	02/15/23 10:18	02/16/23 13:13	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/15/23 10:18	02/16/23 13:13	7440-47-3	
Cobalt	<b>0.0080</b>	mg/L	0.0050	0.00039	1	02/15/23 10:18	02/16/23 13:13	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/15/23 10:18	02/16/23 13:13	7439-92-1	
Lithium	<b>0.0088J</b>	mg/L	0.030	0.00073	1	02/15/23 10:18	02/16/23 13:13	7439-93-2	
Molybdenum	<b>0.023</b>	mg/L	0.010	0.00074	1	02/15/23 10:18	02/16/23 13:13	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/15/23 10:18	02/16/23 13:13	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/15/23 10:18	02/16/23 13:13	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/08/23 15:40	02/09/23 12:52	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>116</b>	mg/L	25.0	25.0	1		02/05/23 14:06		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	<b>75.1</b>	mg/L	5.0	5.0	1		02/07/23 14:56		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/07/23 14:56		
Alkalinity, Total as CaCO3	<b>75.1</b>	mg/L	5.0	5.0	1		02/07/23 14:56		

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Plant McD Background Monitorin  
 Pace Project No.: 92650179

Sample: MCD-DGWA-53		Lab ID: 92650179003		Collected: 02/01/23 12:50	Received: 02/02/23 11:36	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	<b>1.9</b>	mg/L	1.0	0.60	1		02/06/23 18:54	16887-00-6	
Fluoride	<b>0.10</b>	mg/L	0.10	0.050	1		02/06/23 18:54	16984-48-8	
Sulfate	<b>13.3</b>	mg/L	1.0	0.50	1		02/06/23 18:54	14808-79-8	

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**QUALITY CONTROL DATA**

Project: Plant McD Background Monitorin

Pace Project No.: 92650179

QC Batch:	755238	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples:	92650179001, 92650179002, 92650179003		

METHOD BLANK: 3924100 Matrix: Water

Associated Lab Samples: 92650179001, 92650179002, 92650179003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	02/13/23 18:46	
Iron	mg/L	ND	0.040	0.025	02/13/23 18:46	
Magnesium	mg/L	ND	0.050	0.012	02/13/23 18:46	
Potassium	mg/L	ND	0.20	0.15	02/14/23 13:53	
Sodium	mg/L	ND	1.0	0.58	02/13/23 18:46	

LABORATORY CONTROL SAMPLE: 3924101

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.94J	94	80-120	
Iron	mg/L	1	0.93	93	80-120	
Magnesium	mg/L	1	0.96	96	80-120	
Potassium	mg/L	1	1.0	104	80-120	
Sodium	mg/L	1	0.99J	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3924102 3924103

Parameter	Units	92650428004 Result	MS Spike Conc.	MSD Spike Conc.	3924102		3924103		% Rec Limits	RPD	Max RPD	Qual
					MS Result	MSD Result	MS % Rec	MSD % Rec				
Calcium	mg/L	708J ug/L	1	1	1.7	1.7	99	100	75-125	0	20	
Iron	mg/L	1150 ug/L	1	1	2.2	2.1	104	91	75-125	6	20	
Magnesium	mg/L	295 ug/L	1	1	1.3	1.3	101	98	75-125	3	20	
Potassium	mg/L	403 ug/L	1	1	1.5	1.4	105	95	75-125	7	20	
Sodium	mg/L	3610 ug/L	1	1	4.7	4.6	108	102	75-125	1	20	

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**QUALITY CONTROL DATA**

Project: Plant McD Background Monitorin

Pace Project No.: 92650179

QC Batch:	755857	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3005A	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92650179001, 92650179002, 92650179003

METHOD BLANK: 3927212 Matrix: Water

Associated Lab Samples: 92650179001, 92650179002, 92650179003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	02/16/23 12:50	
Arsenic	mg/L	ND	0.0050	0.0022	02/16/23 12:50	
Barium	mg/L	ND	0.0050	0.00067	02/16/23 12:50	
Beryllium	mg/L	ND	0.00050	0.000054	02/16/23 12:50	
Boron	mg/L	ND	0.040	0.0086	02/16/23 12:50	
Cadmium	mg/L	ND	0.00050	0.00011	02/16/23 12:50	
Chromium	mg/L	ND	0.0050	0.0011	02/16/23 12:50	
Cobalt	mg/L	ND	0.0050	0.00039	02/16/23 12:50	
Lead	mg/L	ND	0.0010	0.00089	02/16/23 12:50	
Lithium	mg/L	ND	0.030	0.00073	02/16/23 12:50	
Molybdenum	mg/L	ND	0.010	0.00074	02/16/23 12:50	
Selenium	mg/L	ND	0.0050	0.0014	02/16/23 12:50	
Thallium	mg/L	ND	0.0010	0.00018	02/16/23 12:50	

LABORATORY CONTROL SAMPLE: 3927213

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	107	80-120	
Arsenic	mg/L	0.1	0.099	99	80-120	
Barium	mg/L	0.1	0.098	98	80-120	
Beryllium	mg/L	0.1	0.096	96	80-120	
Boron	mg/L	1	0.99	99	80-120	
Cadmium	mg/L	0.1	0.096	96	80-120	
Chromium	mg/L	0.1	0.10	100	80-120	
Cobalt	mg/L	0.1	0.098	98	80-120	
Lead	mg/L	0.1	0.099	99	80-120	
Lithium	mg/L	0.1	0.097	97	80-120	
Molybdenum	mg/L	0.1	0.10	101	80-120	
Selenium	mg/L	0.1	0.098	98	80-120	
Thallium	mg/L	0.1	0.098	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3927214 3927215

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		92650179003	Result	Spike Conc.	Spike Conc.							
Antimony	mg/L	ND	0.1	0.1	0.11	0.092	111	91	75-125	19	20	
Arsenic	mg/L	0.0029J	0.1	0.1	0.11	0.098	104	95	75-125	9	20	

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**QUALITY CONTROL DATA**

Project: Plant McD Background Monitorin

Pace Project No.: 92650179

Parameter	Units	3927214		3927215		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		92650179003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
Barium	mg/L	0.089	0.1	0.1	0.19	0.19	102	97	75-125	3	20	
Beryllium	mg/L	0.00016J	0.1	0.1	0.10	0.097	105	97	75-125	7	20	
Boron	mg/L	0.051	1	1	1.1	1.0	108	99	75-125	8	20	
Cadmium	mg/L	0.00019J	0.1	0.1	0.10	0.096	102	96	75-125	6	20	
Chromium	mg/L	ND	0.1	0.1	0.11	0.10	111	99	75-125	12	20	
Cobalt	mg/L	0.0080	0.1	0.1	0.12	0.11	108	98	75-125	9	20	
Lead	mg/L	ND	0.1	0.1	0.10	0.097	102	97	75-125	5	20	
Lithium	mg/L	0.0088J	0.1	0.1	0.12	0.11	107	99	75-125	8	20	
Molybdenum	mg/L	0.023	0.1	0.1	0.13	0.12	111	102	75-125	7	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.096	103	96	75-125	7	20	
Thallium	mg/L	ND	0.1	0.1	0.10	0.098	102	98	75-125	4	20	

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**QUALITY CONTROL DATA**

Project: Plant McD Background Monitorin

Pace Project No.: 92650179

QC Batch: 754635	Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A	Analysis Description: 7470 Mercury
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92650179001, 92650179002, 92650179003

METHOD BLANK: 3920549 Matrix: Water  
 Associated Lab Samples: 92650179001, 92650179002, 92650179003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/09/23 11:41	

LABORATORY CONTROL SAMPLE: 3920550

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: 3920551 3920552

Parameter	Units	3920551		3920552		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	0.0025	101	98	75-125	3	20	

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**QUALITY CONTROL DATA**

Project: Plant McD Background Monitorin  
 Pace Project No.: 92650179

QC Batch: 753740 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: 92650179001, 92650179002

METHOD BLANK: 3916052 Matrix: Water  
 Associated Lab Samples: 92650179001, 92650179002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/03/23 15:47	

LABORATORY CONTROL SAMPLE: 3916053

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	413	103	80-120	

SAMPLE DUPLICATE: 3916054

Parameter	Units	92649885002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	78.0	76.0	3	10	

SAMPLE DUPLICATE: 3916055

Parameter	Units	92649923015 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	76.0	103	30	10 D6	

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### QUALITY CONTROL DATA

Project: Plant McD Background Monitorin

Pace Project No.: 92650179

QC Batch: 753832

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: 92650179003

METHOD BLANK: 3916393

Matrix: Water

Associated Lab Samples: 92650179003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/05/23 14:03	

LABORATORY CONTROL SAMPLE: 3916394

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	382	96	80-120	

SAMPLE DUPLICATE: 3916858

Parameter	Units	92649872010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	67.0	69.0	3	10	

SAMPLE DUPLICATE: 3916859

Parameter	Units	92650181004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	536	543	1	10	

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**QUALITY CONTROL DATA**

Project: Plant McD Background Monitorin

Pace Project No.: 92650179

QC Batch: 753922

Analysis Method: SM 2320B-2011

QC Batch Method: SM 2320B-2011

Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92650179001, 92650179002

METHOD BLANK: 3916725

Matrix: Water

Associated Lab Samples: 92650179001, 92650179002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/04/23 16:09	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/04/23 16:09	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/04/23 16:09	

LABORATORY CONTROL SAMPLE: 3916726

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.6	99	80-120	

LABORATORY CONTROL SAMPLE: 3916727

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.7	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3916728 3916729

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Spike Conc.	Result	Spike Conc.	Result								
Alkalinity, Total as CaCO3	mg/L	214	50	50	284	279	141	130	80-120	2	25	M1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3916730 3916731

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Spike Conc.	Result	Spike Conc.	Result								
Alkalinity, Total as CaCO3	mg/L	160	50	50	222	218	124	117	80-120	2	25	M1	

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**QUALITY CONTROL DATA**

Project: Plant McD Background Monitorin  
 Pace Project No.: 92650179

QC Batch: 754277 Analysis Method: SM 2320B-2011  
 QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity  
 Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92650179003

METHOD BLANK: 3918411 Matrix: Water  
 Associated Lab Samples: 92650179003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/07/23 13:23	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/07/23 13:23	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/07/23 13:23	

LABORATORY CONTROL SAMPLE: 3918412

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.0	102	80-120	

LABORATORY CONTROL SAMPLE: 3918413

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.1	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3918414 3918415

Parameter	Units	3918414		3918415		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		92650183003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Alkalinity, Total as CaCO3	mg/L	39.8	50	50	91.7	94.4	104	109	80-120	3	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3918416 3918417

Parameter	Units	3918416		3918417		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		92650183004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Alkalinity, Total as CaCO3	mg/L	ND	50	50	50.6	51.1	98	99	80-120	1	25	

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**QUALITY CONTROL DATA**

Project: Plant McD Background Monitorin

Pace Project No.: 92650179

QC Batch:	753991	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: 92650179001, 92650179002, 92650179003

METHOD BLANK: 3916900 Matrix: Water  
 Associated Lab Samples: 92650179001, 92650179002, 92650179003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/06/23 14:36	
Fluoride	mg/L	ND	0.10	0.050	02/06/23 14:36	
Sulfate	mg/L	ND	1.0	0.50	02/06/23 14:36	

LABORATORY CONTROL SAMPLE: 3916901

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	53.8	108	90-110	
Fluoride	mg/L	2.5	2.7	109	90-110	
Sulfate	mg/L	50	53.9	108	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3916902 3916903

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92650019010	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	4.7	50	50	55.5	56.6	102	104	90-110	2	10		
Fluoride	mg/L	2.7	2.5	2.5	4.8	4.8	87	86	90-110	0	10	M1	
Sulfate	mg/L	97.3	50	50	146	144	97	94	90-110	1	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3916904 3916905

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92650181004	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	19.2	50	50	70.5	71.4	102	104	90-110	1	10		
Fluoride	mg/L	ND	2.5	2.5	2.6	2.7	103	105	90-110	2	10		
Sulfate	mg/L	309	50	50	353	352	89	86	90-110	0	10	M1	

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## QUALIFIERS

Project: Plant McD Background Monitorin  
Pace Project No.: 92650179

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### 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.  
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.

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: Plant McD Background Monitorin  
 Pace Project No.: 92650179

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92650179001	MCD-DGWA-70A				
92650179002	MCD-DGWA-71				
92650179003	MCD-DGWA-53				
92650179001	MCD-DGWA-70A	EPA 3010A	755238	EPA 6010D	755286
92650179002	MCD-DGWA-71	EPA 3010A	755238	EPA 6010D	755286
92650179003	MCD-DGWA-53	EPA 3010A	755238	EPA 6010D	755286
92650179001	MCD-DGWA-70A	EPA 3005A	755857	EPA 6020B	756083
92650179002	MCD-DGWA-71	EPA 3005A	755857	EPA 6020B	756083
92650179003	MCD-DGWA-53	EPA 3005A	755857	EPA 6020B	756083
92650179001	MCD-DGWA-70A	EPA 7470A	754635	EPA 7470A	754885
92650179002	MCD-DGWA-71	EPA 7470A	754635	EPA 7470A	754885
92650179003	MCD-DGWA-53	EPA 7470A	754635	EPA 7470A	754885
92650179001	MCD-DGWA-70A	SM 2540C-2015	753740		
92650179002	MCD-DGWA-71	SM 2540C-2015	753740		
92650179003	MCD-DGWA-53	SM 2540C-2015	753832		
92650179001	MCD-DGWA-70A	SM 2320B-2011	753922		
92650179002	MCD-DGWA-71	SM 2320B-2011	753922		
92650179003	MCD-DGWA-53	SM 2320B-2011	754277		
92650179001	MCD-DGWA-70A	EPA 300.0 Rev 2.1 1993	753991		
92650179002	MCD-DGWA-71	EPA 300.0 Rev 2.1 1993	753991		
92650179003	MCD-DGWA-53	EPA 300.0 Rev 2.1 1993	753991		

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DC#\_Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

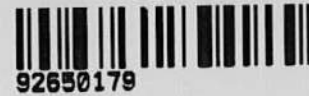
Sample Condition  
Upon Receipt

Client Name:

*GA Power*

Project #:

WO#: 92650179



Courier:  Commercial  Fed Ex  Pace  UPS  USPS  Other:  Client

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: *2/2/23*  
*crit*

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: *3.1* Correction Factor: Add/Subtract (°C) *40.0*

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

Cooler Temp Corrected (°C): *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 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	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: \_\_\_\_\_



DC#\_ Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

**WO# : 92650179**

Project #

PM: BV

Due Date: 02/16/23

CLIENT: GA-GA Power

\*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

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2SO3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)			
1	2	1			1	1																								
2	2	1			1	1																								
3	2	1			1	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 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  
Phone: (410) 620-4178  
Requester Name: 10 Day TAT

Section B  
Report To: Lauren Carter  
Copy To: Collier  
Purchase Order #: Plant M&D Background Monitoring Well Network  
Project #: GL158849522

Section C  
Attention: kcsiviceas@southemco.com  
Company Name: kcsiviceas@southemco.com  
Address:  
Pace Quote: Nicole D'Olivo  
Pace Profile #:  
Requested Analysis Filtered (Y/N)

Item #	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test	Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)
1	MCD-DGWA-70A-WG-20220131	G	1/31/23	16:20		6	3	3							X		X	
2	MCD-DGWA-71-WG-20220131	G	1/31/23	16:28		6	3	3							X		X	
3	MCD-DGWA-53-WG-20220201	G	2/1/23	12:50		6	3	3							X		X	

Matrix	Code	Preservatives	Analyses Test
Dissolving Water	DW		App III/IV + Mg, Na, K, Fe
Water	WT		Cl, F, SO4
Waste Water	WW		Radium 5513/9320
Product	P		TDS
Surface	SL		Alkalinity
Oil	OL		Fe Total, Fe 3+ (Femic calculation)
Type	MT		Ferrous Iron
Other	OT		
Thru	TS		

**SAMPLE ID**  
One Character per box.  
(A-Z, 0-9, -)  
Sample kits must be unique

**ADDITIONAL COMMENTS**  
Task Code = MCD-CCR-ASSMT-2023S1

REQUISITIONED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE
<i>PSB</i>	2/2/23	10:55	<i>M. BAH</i>	2-2-23
<i>M. BAH</i>	2-2-23	11:36	<i>Chandler</i>	2/2/23 11:36

TEMP in C	Received or Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

920650179

pH = 5.59, Fe2 = 0.0 mg/L (Fe2 analyzed 1/31/23 at 16:25) 001  
pH = 5.78, Fe2 = 0.0 mg/L (Fe2 analyzed 1/31/23 at 16:33) 002  
pH = 6.42, Fe2 = 3.2 mg/L (Fe2 analyzed 2/1/23 at 12:50) 003

March 20, 2023

Andrea McClure  
WSP/Golder  
5170 Peachtree Road  
Building 100, Suite 300  
Atlanta, GA 30341

RE: Project: Plant McD Background Monit RAD  
Pace Project No.: 92650185

Dear Andrea McClure:

Enclosed are the analytical results for sample(s) received by the laboratory on February 02, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Greensburg

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

Sincerely,



Bonnie Vang  
bonnie.vang@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR  
Stephen Benda, Southern Company  
Noelia Gangi, Georgia Power  
Daniela Herrera, Golder  
Ben Hodges, Georgia Power-CCR  
Kristen Jurinko  
Laura Midkiff, Georgia Power  
J. Shelby Mobley, Southern Company  
Charles Norton, Southern Company  
Dawn Prell, WSP USA E&I Inc\_Atlanta  
Michael Smilley, Georgia Power

Yong Cheng Soo, WSP/Golder  
Tina Sullivan, ERM



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Plant McD Background Monit RAD  
Pace Project No.: 92650185

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### **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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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Plant McD Background Monit RAD  
Pace Project No.: 92650185

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92650185001	MCD-DGWA-70A	Water	01/31/23 16:20	02/02/23 11:36
92650185002	MCD-DGWA-71	Water	01/31/23 16:28	02/02/23 11:36
92650185003	MCD-DGWA-53	Water	02/01/23 12:50	02/02/23 11:36

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Plant McD Background Monit RAD

Pace Project No.: 92650185

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92650185001	MCD-DGWA-70A	EPA 9315	RMS	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92650185002	MCD-DGWA-71	EPA 9315	RMS	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92650185003	MCD-DGWA-53	EPA 9315	RMS	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

### REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Plant McD Background Monit RAD

Pace Project No.: 92650185

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**Date:** March 20, 2023

Georgia Power EQulS Database Manager requested Pace Project Manager remove the sample matrix and date from the Sample IDs. This update ensures sample nomenclature is followed on final PDF and EDD for successful upload of laboratory data into the Georgia Power EQulS database.

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Plant McD Background Monit RAD

Pace Project No.: 92650185

---

**Method:** EPA 9315

**Description:** 9315 Total Radium

**Client:** Georgia Power

**Date:** March 20, 2023

**General Information:**

3 samples were analyzed for EPA 9315 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Plant McD Background Monit RAD

Pace Project No.: 92650185

---

**Method:** EPA 9320

**Description:** 9320 Radium 228

**Client:** Georgia Power

**Date:** March 20, 2023

**General Information:**

3 samples were analyzed for EPA 9320 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Plant McD Background Monit RAD

Pace Project No.: 92650185

---

**Method:** Total Radium Calculation

**Description:** Total Radium 228+226

**Client:** Georgia Power

**Date:** March 20, 2023

**General Information:**

3 samples were analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD Background Monit RAD

Pace Project No.: 92650185

**Sample: MCD-DGWA-70A**      **Lab ID: 92650185001**      Collected: 01/31/23 16:20      Received: 02/02/23 11:36      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	<b>0.102 ± 0.127 (0.255)</b> <b>C:99% T:NA</b>	pCi/L	02/17/23 18:50	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.314 ± 0.243 (0.468)</b> <b>C:84% T:94%</b>	pCi/L	02/14/23 13:14	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.416 ± 0.370 (0.723)</b>	pCi/L	02/21/23 11:36	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD Background Monit RAD

Pace Project No.: 92650185

**Sample: MCD-DGWA-71**      **Lab ID: 92650185002**      Collected: 01/31/23 16:28      Received: 02/02/23 11:36      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	<b>0.0405 ± 0.111 (0.271)</b> <b>C:100% T:NA</b>	pCi/L	02/17/23 19:33	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.273 ± 0.258 (0.525)</b> <b>C:83% T:96%</b>	pCi/L	02/14/23 13:14	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.314 ± 0.369 (0.796)</b>	pCi/L	02/21/23 11:36	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD Background Monit RAD

Pace Project No.: 92650185

**Sample: MCD-DGWA-53**      **Lab ID: 92650185003**      Collected: 02/01/23 12:50      Received: 02/02/23 11:36      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	<b>0.982 ± 0.335 (0.291)</b> <b>C:99% T:NA</b>	pCi/L	02/17/23 19:34	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.942 ± 0.428 (0.700)</b> <b>C:77% T:85%</b>	pCi/L	02/14/23 16:29	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.92 ± 0.763 (0.991)</b>	pCi/L	02/21/23 11:36	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD Background Monit RAD

Pace Project No.: 92650185

QC Batch: 565150

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92650185001, 92650185002, 92650185003

METHOD BLANK: 2743952

Matrix: Water

Associated Lab Samples: 92650185001, 92650185002, 92650185003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.323 ± 0.277 (0.553) C:86% T:88%	pCi/L	02/14/23 13:14	

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

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD Background Monit RAD

Pace Project No.: 92650185

QC Batch: 565151

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92650185001, 92650185002, 92650185003

METHOD BLANK: 2743953

Matrix: Water

Associated Lab Samples: 92650185001, 92650185002, 92650185003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0640 ± 0.166 (0.397) C:100% T:NA	pCi/L	02/17/23 19:36	

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 McD Background Monit RAD

Pace Project No.: 92650185

---

### DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McD Background Monit RAD

Pace Project No.: 92650185

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92650185001	MCD-DGWA-70A	EPA 9315	565151		
92650185002	MCD-DGWA-71	EPA 9315	565151		
92650185003	MCD-DGWA-53	EPA 9315	565151		
92650185001	MCD-DGWA-70A	EPA 9320	565150		
92650185002	MCD-DGWA-71	EPA 9320	565150		
92650185003	MCD-DGWA-53	EPA 9320	565150		
92650185001	MCD-DGWA-70A	Total Radium Calculation	568700		
92650185002	MCD-DGWA-71	Total Radium Calculation	568700		
92650185003	MCD-DGWA-53	Total Radium Calculation	568700		

### REPORT OF LABORATORY ANALYSIS

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DC#\_Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Sample Condition Upon Receipt

Client Name:

GA Power

Project #:

WO#: 92650185



Courier:  Commercial  Fed Ex  Pace  UPS  USPS  Other:  Client

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 2/2/23 cut

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: 3.1 Correction Factor: Add/Subtract (°C) 40.0

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

Cooler Temp Corrected (°C): 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:	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 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

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

Project #

**WO# : 92650185**

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

PM: BV

Due Date: 02/23/23

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

CLIENT: GA-GA Power

\*\*\*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)	DG9A-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1	/	2	1	/	/	1	/	9	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	BRN	/	/	/	/
2	/	2	1	/	/	1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
3	/	2	1	/	/	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 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

**Required Project Information:**  
 Report To: Lauren Coker  
 Copy To: Godder

**Invoice Information:**  
 Attention: kasimirova@southtenco.com  
 Company Name: Southtenco

**Regulatory Agency**  
 State / Location: GA

**Other Info:**  
 Email: laucoker@southtenco.com  
 Phone: (470) 820-6176  
 Fax: (470) 820-6176  
 Requested Due Date: 10 Day TAT  
 Project #: GL165849522

**Section B**

**Required Project Information:**  
 Report To: Lauren Coker  
 Copy To: Godder

**Invoice Information:**  
 Attention: kasimirova@southtenco.com  
 Company Name: Southtenco

**Regulatory Agency**  
 State / Location: GA

**Other Info:**  
 Purchase Order #: Part MCD Background Monitoring Well Network  
 Project Name: Part MCD Background Monitoring Well Network  
 Project #: GL165849522

**Section C**

**Required Project Information:**  
 Report To: Lauren Coker  
 Copy To: Godder

**Invoice Information:**  
 Attention: kasimirova@southtenco.com  
 Company Name: Southtenco

**Regulatory Agency**  
 State / Location: GA

**Other Info:**  
 Price Profile #: Nicole D'Olio

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	Preservatives								Analyses Test						Residual Chlorine (Y/N)	SAMPLE CONDITIONS											
							# OF CONTAINERS	Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Y/N	App III/IV + Mg, Na, K, Fe	Cl, F, SO4	Radon 9513/9320	TDS		Alkalinity	Fe Total, Fe 3+ (Femic calculation)	Ferrous Iron	TEMP in C	Received or Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)					
																													G	C	G	C	G
1	MCD-DGWA-70A-WG-20220131	WG	G	1/31/23	16:20		6	3	3																								
2	MCD-DGWA-71-WG-20220131	WG	G	1/31/23	16:28		6	3	3																								
3	MCD-DGWA-53-WG-20230201	WG	G	2/1/23	12:50		5	3	3																								
4																																	
5																																	
6																																	
7																																	
8																																	
9																																	
10																																	
11																																	
12																																	
13																																	
14																																	

22650185  
 pH = 5.59, Fe2 = 0.0 mg/L (Fe2 analyzed)  
 1/31/23 at 16:28  
 pH = 5.78, Fe2 = 0.0 mg/L (Fe2 analyzed)  
 1/31/23 at 16:33  
 pH = 6.42, Fe2 = 3.2 mg/L (Fe2 analyzed)  
 2/1/23 at 12:59

REQUISITIONED BY / AFFILIATION: M. BAH  
 DATE: 2/2/23  
 TIME: 10:55  
 ACCEPTED BY / AFFILIATION: M. BAH  
 DATE: 2-2-23  
 TIME: 11:36

DATE Signed:

# Quality Control Sample Performance Assessment



Analyt Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226  
Analyst: RMS  
Date: 1/0/1900  
Worklist: 71313  
Matrix: DW

Method Blank Assessment	
MB Sample ID	2743953
MB concentration:	0.064
MB Counting Uncertainty:	0.166
MB MDC:	0.397
MB Numerical Performance Indicator:	0.76
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS (Y or N)?	
	LCS71313	LCS071313
Count Date:	2/20/2023	2/20/2023
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.019	24.019
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.511	0.507
Target Conc. (pCi/L, g, F):	4.702	4.736
Uncertainty (Calculated):	0.056	0.057
Result (pCi/L, g, F):	4.223	5.069
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.480	0.538
Numerical Performance Indicator:	-1.94	1.21
Percent Recovery:	89.81%	107.03%
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)?	
	LCS71313	LCS071313
Sample I.D.:	92650188001	92650188001DUP
Duplicate Sample I.D.:	0.181	0.181
Sample Result (pCi/L, g, F):	0.480	0.150
Sample Duplicate Result (pCi/L, g, F):	5.069	0.073
Sample Duplicate Counting Uncertainty (pCi/L, g, F):	NO	0.103
Are sample and/or duplicate results below RL?	-2.299	See Below ##
Duplicate Numerical Performance Indicator:	17.50%	1.172
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	N/A	85.65%
Duplicate Status vs Numerical Indicator:	Pass	N/A
Duplicate Status vs RPD:	25%	25%
% RPD Limit:	25%	25%

## Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

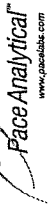
Comments:

Batch must be re-prepped due to unacceptable precision: NA  
377 2-20-23

Jan 2/21/23



# Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228  
Analyst: ZPC  
Date: 2/10/2023  
Worklist: 71312  
Matrix: WT

Method Blank Assessment	
MB Sample ID	2743952
MB concentration:	0.323
M/B 2 Sigma CSU:	0.277
MB MDC:	0.553
MB Numerical Performance Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	
	LCSD71312	LCSD71312
Count Date:	2/14/2023	2/14/2023
Spike I.D.:	22-040	22-040
Decay Corrected Spike Concentration (pCi/mL):	33.553	33.553
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.805	0.808
Target Conc. (pCi/L, g, F):	4.169	4.154
Uncertainty (Calculated):	0.204	0.204
Result (pCi/L, g, F):	3.240	3.606
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.779	0.858
Numerical Performance Indicator:	-2.26	-1.22
Percent Recovery:	77.72%	86.80%
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	Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample I.D.:	Sample I.D.
Duplicate Sample I.D.:	Sample MS I.D.
Sample Result (pCi/L, g, F):	Sample MSD I.D.
Sample Duplicate Result (pCi/L, g, F):	Sample Matrix Spike Result:
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	Sample Matrix Spike Duplicate Result:
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	Duplicate Numerical Performance Indicator:
Are sample and/or duplicate results below RL?	(Based on the Percent Recoveries) MS/MSD Duplicate RPD:
Duplicate Numerical Performance Indicator:	MS/MSD Duplicate Status vs Numerical Indicator:
Duplicate Status vs Numerical Indicator:	MS/MSD Duplicate Status vs RPD:
Duplicate Status vs RPD:	% RPD Limit
% RPD Limit:	

# Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

*Handwritten notes:*  
2/15/23  
VNL  
2/15/23

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.:		
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:		
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:		



July 28, 2023

Andrea McClure  
WSP/Golder  
5170 Peachtree Road  
Building 100, Suite 300  
Atlanta, GA 30341

RE: Project: Plant McD AP 2-3/4 DetectionWe  
Pace Project No.: 92650181

Dear Andrea McClure:

Enclosed are the analytical results for sample(s) received by the laboratory between February 02, 2023 and February 08, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,

Bonnie Vang  
bonnie.vang@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: Stephen Benda, Southern Company  
Daniela Herrera, Golder  
Ben Hodges, Georgia Power-CCR  
J. Shelby Mobley, Southern Company  
Charles Norton, Southern Company  
Dawn Prell, WSP USA E&I Inc\_Atlanta  
Yong Cheng Soo, WSP/Golder



## REPORT OF LABORATORY ANALYSIS

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### CERTIFICATIONS

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

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**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

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**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

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**Pace Analytical Services Peachtree Corners**

110 Technology Pkwy, Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

Virginia Certification #: 460204

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### REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: Plant McD AP 2-3/4 DetectionWe  
Pace Project No.: 92650181

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92650181001	MCD-DGWC-42	Water	02/01/23 13:20	02/02/23 11:36
92650181002	MCD-DGWC-13	Water	02/01/23 16:16	02/02/23 11:36
92650181003	MCD-DGWC-14	Water	02/01/23 16:35	02/02/23 11:36
92650181004	MCD-AP234-FD-4	Water	02/01/23 00:00	02/02/23 11:36
92650181005	MCD-DGWC-10	Water	02/02/23 10:10	02/03/23 16:23
92650181006	MCD-DGWC-15	Water	02/02/23 15:00	02/03/23 16:23
92650181007	MCD-DGWC-47	Water	02/03/23 12:47	02/03/23 16:23
92650181008	MCD-DGWC-4	Water	02/03/23 12:25	02/03/23 16:23
92650181009	MCD-DGWC-48	Water	02/03/23 09:50	02/03/23 16:23
92650181010	MCD-AP234-EB-3	Water	02/03/23 13:15	02/03/23 16:23
92650181011	MCD-AP234-EB-2	Water	02/02/23 15:05	02/03/23 16:23
92650181012	MCD-DGWC-9	Water	02/03/23 11:50	02/03/23 16:23
92650181013	MCD-AP234-FD-2	Water	02/03/23 00:00	02/03/23 16:23
92650181014	MCD-DGWC-2	Water	02/06/23 09:55	02/07/23 11:10
92650181015	MCD-DGWC-11	Water	02/06/23 16:31	02/07/23 11:10
92650181016	MCD-DGWC-12	Water	02/06/23 13:45	02/07/23 11:10
92650181017	MCD-DGWC-17	Water	02/06/23 10:50	02/07/23 11:10
92650181018	MCD-DGWC-19	Water	02/06/23 12:50	02/07/23 11:10
92650181019	MCD-DGWC-22	Water	02/06/23 15:10	02/07/23 11:10
92650181020	MCD-DGWC-23	Water	02/06/23 14:10	02/07/23 11:10
92650181021	MCD-AP234-EB-4	Water	02/06/23 15:55	02/07/23 11:10
92650181022	MCD-234-FD-3	Water	02/06/23 00:00	02/07/23 11:10
92650181023	MCD-234-FD-5	Water	02/06/23 00:00	02/07/23 11:10
92650181024	MCD-AP234-FB-4	Water	02/06/23 09:50	02/07/23 11:10
92650181025	MCD-DGWC-5	Water	02/07/23 10:00	02/08/23 13:48
92650181026	MCD-DGWC-8	Water	02/07/23 12:00	02/08/23 13:48
92650181027	MCD-DGWC-20	Water	02/07/23 10:38	02/08/23 13:48
92650181028	MCD-DGWC-21	Water	02/07/23 14:56	02/08/23 13:48
92650181029	MCD-AP234-EB-5	Water	02/07/23 09:00	02/08/23 13:48
92650181030	MCD-AP234-FB-5	Water	02/07/23 10:30	02/08/23 13:48
92650181031	MCD-234-FD-6	Water	02/07/23 00:00	02/08/23 13:58

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92650181001	MCD-DGWC-42	EPA 6010D	MS	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
92650181002	MCD-DGWC-13	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
92650181003	MCD-DGWC-14	SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
92650181004	MCD-AP234-FD-4	SM 2320B-2011	SMS	3
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	5
		EPA 6020B	CW1	13
92650181005	MCD-DGWC-10	EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	5
92650181006	MCD-DGWC-15	EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92650181007	MCD-DGWC-47	EPA 6010D	MS	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92650181008	MCD-DGWC-4	EPA 6010D	MS	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92650181009	MCD-DGWC-48	EPA 6010D	MS	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92650181010	MCD-AP234-EB-3	EPA 6010D	MS	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92650181011	MCD-AP234-EB-2	EPA 6010D	MS	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92650181012	MCD-DGWC-9	EPA 6010D	MS	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92650181013	MCD-AP234-FD-2	EPA 6010D	MS	5
		EPA 6020B	CW1	13

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**SAMPLE ANALYTE COUNT**

Project: Plant McD AP 2-3/4 DetectionWe  
 Pace Project No.: 92650181

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92650181014	MCD-DGWC-2	EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
		EPA 6010D	MS	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
92650181015	MCD-DGWC-11	SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92650181016	MCD-DGWC-12	EPA 6010D	MS	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	5
		EPA 6020B	CW1	13
92650181017	MCD-DGWC-17	EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
92650181018	MCD-DGWC-19	SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92650181019	MCD-DGWC-22	EPA 6010D	MS	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1

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**SAMPLE ANALYTE COUNT**

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92650181020	MCD-DGWC-23	SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
92650181021	MCD-AP234-EB-4	SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
92650181022	MCD-234-FD-3	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92650181023	MCD-234-FD-5	EPA 6010D	MS	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	5
92650181024	MCD-AP234-FB-4	EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	5
		EPA 6020B	CW1	13
92650181025	MCD-DGWC-5	EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	5
		EPA 6020B	CW1	13

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**SAMPLE ANALYTE COUNT**

Project: Plant McD AP 2-3/4 DetectionWe  
 Pace Project No.: 92650181

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92650181026	MCD-DGWC-8	SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
92650181027	MCD-DGWC-20	SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
92650181028	MCD-DGWC-21	SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
92650181029	MCD-AP234-EB-5	SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
92650181030	MCD-AP234-FB-5	SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
92650181031	MCD-234-FD-6	SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1

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### SAMPLE ANALYTE COUNT

Project: Plant McD AP 2-3/4 DetectionWe  
Pace Project No.: 92650181

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Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 300.0 Rev 2.1 1993	CDC	3

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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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### SUMMARY OF DETECTION

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92650181001</b>	<b>MCD-DGWC-42</b>					
	Performed by	Client			02/14/23 11:29	
	Collected Date	02/01/23			02/14/23 11:29	
	Collected Time	13:25			02/14/23 11:29	
	pH	5.17	Std. Units		02/14/23 11:29	
EPA 6010D	Iron	0.12	mg/L	0.040	02/16/23 18:08	
EPA 6010D	Potassium	4.4	mg/L	0.20	02/16/23 18:08	
EPA 6010D	Sodium	65.5	mg/L	1.0	02/16/23 18:08	M1
EPA 6010D	Calcium	32.7	mg/L	1.0	02/16/23 18:08	M1
EPA 6010D	Magnesium	23.8	mg/L	0.050	02/16/23 18:08	M1
EPA 6020B	Barium	0.015	mg/L	0.0050	02/18/23 17:48	
EPA 6020B	Beryllium	0.0022	mg/L	0.00050	02/18/23 17:48	
EPA 6020B	Boron	0.94	mg/L	0.040	02/18/23 17:48	
EPA 6020B	Cadmium	0.00075	mg/L	0.00050	02/18/23 17:48	
EPA 6020B	Cobalt	0.0068	mg/L	0.0050	02/18/23 17:48	
EPA 6020B	Lithium	0.0068J	mg/L	0.030	02/18/23 17:48	
EPA 6020B	Thallium	0.00028J	mg/L	0.0010	02/18/23 17:48	
SM 2540C-2015	Total Dissolved Solids	541	mg/L	25.0	02/05/23 14:06	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	7.3	mg/L	5.0	02/07/23 15:10	
SM 2320B-2011	Alkalinity, Total as CaCO3	7.3	mg/L	5.0	02/07/23 15:10	
EPA 300.0 Rev 2.1 1993	Chloride	19.3	mg/L	1.0	02/06/23 20:12	
EPA 300.0 Rev 2.1 1993	Sulfate	313	mg/L	7.0	02/07/23 07:21	
<b>92650181002</b>	<b>MCD-DGWC-13</b>					
	Performed by	Client			02/14/23 11:30	
	Collected Date	02/01/23			02/14/23 11:30	
	Collected Time	16:21			02/14/23 11:30	
	pH	5.54	Std. Units		02/14/23 11:30	
EPA 6010D	Potassium	4.5	mg/L	0.20	02/16/23 18:42	
EPA 6010D	Sodium	19.1	mg/L	1.0	02/16/23 18:42	
EPA 6010D	Calcium	33.6	mg/L	1.0	02/16/23 18:42	
EPA 6010D	Magnesium	7.1	mg/L	0.050	02/16/23 18:42	
EPA 6020B	Barium	0.023	mg/L	0.0050	02/18/23 17:54	
EPA 6020B	Beryllium	0.000067J	mg/L	0.00050	02/18/23 17:54	
EPA 6020B	Boron	0.54	mg/L	0.040	02/18/23 17:54	
EPA 6020B	Lithium	0.0031J	mg/L	0.030	02/18/23 17:54	
EPA 6020B	Molybdenum	0.0085J	mg/L	0.010	02/18/23 17:54	
EPA 6020B	Selenium	0.0036J	mg/L	0.0050	02/18/23 17:54	
SM 2540C-2015	Total Dissolved Solids	216	mg/L	25.0	02/05/23 14:06	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	22.9	mg/L	5.0	02/07/23 15:16	
SM 2320B-2011	Alkalinity, Total as CaCO3	22.9	mg/L	5.0	02/07/23 15:16	
EPA 300.0 Rev 2.1 1993	Chloride	12.2	mg/L	1.0	02/06/23 20:37	
EPA 300.0 Rev 2.1 1993	Fluoride	0.090J	mg/L	0.10	02/06/23 20:37	
EPA 300.0 Rev 2.1 1993	Sulfate	97.5	mg/L	2.0	02/07/23 09:04	
<b>92650181003</b>	<b>MCD-DGWC-14</b>					
	Performed by	Client			02/14/23 11:33	
	Collected Date	02/01/23			02/14/23 11:33	
	Collected Time	16:40			02/14/23 11:33	

### REPORT OF LABORATORY ANALYSIS

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**SUMMARY OF DETECTION**

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92650181003</b>	<b>MCD-DGWC-14</b>					
	pH	5.87	Std. Units		02/14/23 11:33	
EPA 6010D	Iron	0.045	mg/L	0.040	02/16/23 18:47	
EPA 6010D	Potassium	7.4	mg/L	0.20	02/16/23 18:47	
EPA 6010D	Sodium	8.1	mg/L	1.0	02/16/23 18:47	
EPA 6010D	Calcium	11.9	mg/L	1.0	02/16/23 18:47	
EPA 6010D	Magnesium	4.5	mg/L	0.050	02/16/23 18:47	
EPA 6020B	Antimony	0.0010J	mg/L	0.0030	02/18/23 18:18	
EPA 6020B	Barium	0.057	mg/L	0.0050	02/18/23 18:18	
EPA 6020B	Boron	0.16	mg/L	0.040	02/18/23 18:18	
EPA 6020B	Lithium	0.018J	mg/L	0.030	02/18/23 18:18	
EPA 6020B	Selenium	0.0014J	mg/L	0.0050	02/18/23 18:18	
SM 2540C-2015	Total Dissolved Solids	116	mg/L	25.0	02/05/23 14:07	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	27.4	mg/L	5.0	02/07/23 15:22	
SM 2320B-2011	Alkalinity, Total as CaCO3	27.4	mg/L	5.0	02/07/23 15:22	
EPA 300.0 Rev 2.1 1993	Chloride	4.5	mg/L	1.0	02/06/23 21:03	
EPA 300.0 Rev 2.1 1993	Fluoride	0.067J	mg/L	0.10	02/06/23 21:03	
EPA 300.0 Rev 2.1 1993	Sulfate	45.9	mg/L	1.0	02/06/23 21:03	
<b>92650181004</b>	<b>MCD-AP234-FD-4</b>					
	Performed by	Client			02/14/23 11:34	
	Collected Date	02/01/23			02/14/23 11:34	
	Collected Time	00:00			02/14/23 11:34	
EPA 6010D	Iron	0.12	mg/L	0.040	02/16/23 18:52	
EPA 6010D	Potassium	4.6	mg/L	0.20	02/16/23 18:52	
EPA 6010D	Sodium	68.8	mg/L	1.0	02/16/23 18:52	
EPA 6010D	Calcium	34.1	mg/L	1.0	02/16/23 18:52	
EPA 6010D	Magnesium	24.9	mg/L	0.050	02/16/23 18:52	
EPA 6020B	Barium	0.016	mg/L	0.0050	02/18/23 18:24	
EPA 6020B	Beryllium	0.0023	mg/L	0.00050	02/18/23 18:24	
EPA 6020B	Boron	1.0	mg/L	0.040	02/18/23 18:24	
EPA 6020B	Cadmium	0.00086	mg/L	0.00050	02/18/23 18:24	
EPA 6020B	Cobalt	0.0074	mg/L	0.0050	02/18/23 18:24	
EPA 6020B	Lithium	0.0074J	mg/L	0.030	02/18/23 18:24	
SM 2540C-2015	Total Dissolved Solids	536	mg/L	25.0	02/05/23 14:07	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	8.5	mg/L	5.0	02/07/23 15:28	
SM 2320B-2011	Alkalinity, Total as CaCO3	8.5	mg/L	5.0	02/07/23 15:28	
EPA 300.0 Rev 2.1 1993	Chloride	19.2	mg/L	1.0	02/06/23 22:21	
EPA 300.0 Rev 2.1 1993	Sulfate	309	mg/L	7.0	02/07/23 09:29	M1
<b>92650181005</b>	<b>MCD-DGWC-10</b>					
	Performed by	Client			02/14/23 11:36	
	Collected Date	02/02/23			02/14/23 11:36	
	Collected Time	10:15			02/14/23 11:36	
	pH	4.67	Std. Units		02/14/23 11:36	
EPA 6010D	Potassium	5.5	mg/L	0.20	02/16/23 18:57	
EPA 6010D	Sodium	9.9	mg/L	1.0	02/16/23 18:57	
EPA 6010D	Calcium	60.8	mg/L	1.0	02/16/23 18:57	
EPA 6010D	Magnesium	5.7	mg/L	0.050	02/16/23 18:57	

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**SUMMARY OF DETECTION**

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92650181005</b>	<b>MCD-DGWC-10</b>					
EPA 6020B	Arsenic	0.0036J	mg/L	0.0050	02/18/23 18:30	
EPA 6020B	Barium	0.020	mg/L	0.0050	02/18/23 18:30	
EPA 6020B	Beryllium	0.0066	mg/L	0.00050	02/18/23 18:30	
EPA 6020B	Boron	0.34	mg/L	0.040	02/18/23 18:30	
EPA 6020B	Cadmium	0.00059	mg/L	0.00050	02/18/23 18:30	
EPA 6020B	Chromium	0.0013J	mg/L	0.0050	02/18/23 18:30	
EPA 6020B	Cobalt	0.11	mg/L	0.0050	02/18/23 18:30	
EPA 6020B	Lithium	0.0049J	mg/L	0.030	02/18/23 18:30	
EPA 6020B	Selenium	0.015	mg/L	0.0050	02/18/23 18:30	
SM 2540C-2015	Total Dissolved Solids	390	mg/L	25.0	02/07/23 18:42	
EPA 300.0 Rev 2.1 1993	Chloride	9.9	mg/L	1.0	02/08/23 07:51	
EPA 300.0 Rev 2.1 1993	Fluoride	1.1	mg/L	0.10	02/08/23 07:51	
EPA 300.0 Rev 2.1 1993	Sulfate	235	mg/L	5.0	02/08/23 14:41	
<b>92650181006</b>	<b>MCD-DGWC-15</b>					
	Performed by	Client			02/14/23 11:39	
	Collected Date	02/02/23			02/14/23 11:39	
	Collected Time	15:05			02/14/23 11:39	
	pH	5.86	Std. Units		02/14/23 11:39	
EPA 6010D	Iron	0.11	mg/L	0.040	02/16/23 19:02	
EPA 6010D	Potassium	4.2	mg/L	0.20	02/16/23 19:02	
EPA 6010D	Sodium	19.7	mg/L	1.0	02/16/23 19:02	
EPA 6010D	Calcium	32.2	mg/L	1.0	02/16/23 19:02	
EPA 6010D	Magnesium	13.6	mg/L	0.050	02/16/23 19:02	
EPA 6020B	Barium	0.039	mg/L	0.0050	02/18/23 18:48	
EPA 6020B	Boron	1.3	mg/L	0.040	02/18/23 18:48	
EPA 6020B	Cobalt	0.0017J	mg/L	0.0050	02/18/23 18:48	
EPA 6020B	Lithium	0.0050J	mg/L	0.030	02/18/23 18:48	
SM 2540C-2015	Total Dissolved Solids	288	mg/L	25.0	02/07/23 18:42	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	17.4	mg/L	5.0	02/08/23 14:52	
SM 2320B-2011	Alkalinity, Total as CaCO3	17.4	mg/L	5.0	02/08/23 14:52	
EPA 300.0 Rev 2.1 1993	Chloride	22.1	mg/L	1.0	02/08/23 08:07	
EPA 300.0 Rev 2.1 1993	Fluoride	0.065J	mg/L	0.10	02/08/23 08:07	
EPA 300.0 Rev 2.1 1993	Sulfate	137	mg/L	3.0	02/08/23 14:57	
<b>92650181007</b>	<b>MCD-DGWC-47</b>					
	Performed by	Client			02/14/23 11:40	
	Collected Date	02/03/23			02/14/23 11:40	
	Collected Time	12:52			02/14/23 11:40	
	pH	3.88	Std. Units		02/14/23 11:40	
EPA 6010D	Iron	0.87	mg/L	0.040	02/16/23 19:07	
EPA 6010D	Potassium	4.8	mg/L	0.20	02/16/23 19:07	
EPA 6010D	Sodium	7.0	mg/L	1.0	02/16/23 19:07	
EPA 6010D	Calcium	23.7	mg/L	1.0	02/16/23 19:07	
EPA 6010D	Magnesium	6.7	mg/L	0.050	02/16/23 19:07	
EPA 6020B	Barium	0.019	mg/L	0.0050	02/18/23 18:54	
EPA 6020B	Beryllium	0.0087	mg/L	0.00050	02/18/23 18:54	
EPA 6020B	Boron	0.16	mg/L	0.040	02/18/23 18:54	

**REPORT OF LABORATORY ANALYSIS**

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### SUMMARY OF DETECTION

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92650181007</b>	<b>MCD-DGWC-47</b>					
EPA 6020B	Cadmium	0.0013	mg/L	0.00050	02/18/23 18:54	
EPA 6020B	Cobalt	0.21	mg/L	0.0050	02/18/23 18:54	
EPA 6020B	Lithium	0.048	mg/L	0.030	02/18/23 18:54	
EPA 6020B	Selenium	0.0015J	mg/L	0.0050	02/18/23 18:54	
EPA 6020B	Thallium	0.00022J	mg/L	0.0010	02/18/23 18:54	
SM 2540C-2015	Total Dissolved Solids	259	mg/L	25.0	02/07/23 13:21	
EPA 300.0 Rev 2.1 1993	Chloride	2.6	mg/L	1.0	02/07/23 19:28	
EPA 300.0 Rev 2.1 1993	Fluoride	0.45	mg/L	0.10	02/07/23 19:28	
EPA 300.0 Rev 2.1 1993	Sulfate	138	mg/L	3.0	02/08/23 13:07	
<b>92650181008</b>	<b>MCD-DGWC-4</b>					
	Performed by	Client			02/14/23 11:41	
	Collected Date	02/03/23			02/14/23 11:41	
	Collected Time	12:30			02/14/23 11:41	
	pH	5.77	Std. Units		02/14/23 11:41	
EPA 6010D	Potassium	9.5	mg/L	0.20	02/16/23 19:11	
EPA 6010D	Sodium	53.6	mg/L	1.0	02/16/23 19:11	
EPA 6010D	Calcium	287	mg/L	1.0	02/16/23 19:11	
EPA 6010D	Magnesium	37.0	mg/L	0.050	02/16/23 19:11	
EPA 6020B	Barium	0.034	mg/L	0.0050	02/18/23 19:00	
EPA 6020B	Beryllium	0.00033J	mg/L	0.00050	02/18/23 19:00	
EPA 6020B	Boron	4.5	mg/L	0.040	02/18/23 19:00	
EPA 6020B	Cadmium	0.0010	mg/L	0.00050	02/18/23 19:00	
EPA 6020B	Cobalt	0.0018J	mg/L	0.0050	02/18/23 19:00	
EPA 6020B	Lithium	0.0036J	mg/L	0.030	02/18/23 19:00	
EPA 6020B	Molybdenum	0.0035J	mg/L	0.010	02/18/23 19:00	
SM 2540C-2015	Total Dissolved Solids	1630	mg/L	25.0	02/07/23 13:21	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	121	mg/L	5.0	02/08/23 16:43	
SM 2320B-2011	Alkalinity, Total as CaCO3	121	mg/L	5.0	02/08/23 16:43	
EPA 300.0 Rev 2.1 1993	Chloride	11.0	mg/L	1.0	02/07/23 20:43	
EPA 300.0 Rev 2.1 1993	Fluoride	0.096J	mg/L	0.10	02/07/23 20:43	
EPA 300.0 Rev 2.1 1993	Sulfate	949	mg/L	20.0	02/08/23 14:20	
<b>92650181009</b>	<b>MCD-DGWC-48</b>					
	Performed by	Client			02/14/23 11:41	
	Collected Date	02/03/23			02/14/23 11:41	
	Collected Time	09:55			02/14/23 11:41	
	pH	4.20	Std. Units		02/14/23 11:41	
EPA 6010D	Iron	3.6	mg/L	0.040	02/16/23 19:17	
EPA 6010D	Potassium	13.3	mg/L	0.20	02/16/23 19:17	
EPA 6010D	Sodium	20.8	mg/L	1.0	02/16/23 19:17	
EPA 6010D	Calcium	64.1	mg/L	1.0	02/16/23 19:17	
EPA 6010D	Magnesium	14.4	mg/L	0.050	02/16/23 19:17	
EPA 6020B	Barium	0.013	mg/L	0.0050	02/18/23 19:06	
EPA 6020B	Beryllium	0.0062	mg/L	0.00050	02/18/23 19:06	
EPA 6020B	Boron	0.59	mg/L	0.040	02/18/23 19:06	
EPA 6020B	Cadmium	0.0024	mg/L	0.00050	02/18/23 19:06	
EPA 6020B	Cobalt	0.31	mg/L	0.0050	02/18/23 19:06	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92650181009</b>	<b>MCD-DGWC-48</b>					
EPA 6020B	Lithium	0.089	mg/L	0.030	02/18/23 19:06	
SM 2540C-2015	Total Dissolved Solids	527	mg/L	25.0	02/08/23 18:54	
EPA 300.0 Rev 2.1 1993	Chloride	8.2	mg/L	1.0	02/07/23 20:58	
EPA 300.0 Rev 2.1 1993	Fluoride	0.48	mg/L	0.10	02/07/23 20:58	
EPA 300.0 Rev 2.1 1993	Sulfate	301	mg/L	6.0	02/08/23 14:35	
<b>92650181010</b>	<b>MCD-AP234-EB-3</b>					
EPA 6010D	Iron	11.1	mg/L	0.040	02/16/23 19:21	
EPA 6010D	Potassium	2.3	mg/L	0.20	02/16/23 19:21	
EPA 6010D	Sodium	11.8	mg/L	1.0	02/16/23 19:21	
EPA 6010D	Calcium	75.7	mg/L	1.0	02/16/23 19:21	
EPA 6010D	Magnesium	18.4	mg/L	0.050	02/16/23 19:21	
EPA 6020B	Barium	0.096	mg/L	0.0050	02/18/23 19:12	
EPA 6020B	Boron	2.2	mg/L	0.040	02/18/23 19:12	
EPA 6020B	Cobalt	0.0057	mg/L	0.0050	02/18/23 19:12	
EPA 300.0 Rev 2.1 1993	Sulfate	0.59J	mg/L	1.0	02/07/23 21:13	
<b>92650181011</b>	<b>MCD-AP234-EB-2</b>					
EPA 6020B	Boron	0.021J	mg/L	0.040	02/18/23 19:18	
<b>92650181012</b>	<b>MCD-DGWC-9</b>					
	Performed by	Client			02/14/23 11:43	
	Collected Date	02/03/23			02/14/23 11:43	
	Collected Time	11:55			02/14/23 11:43	
	pH	4.02	Std. Units		02/14/23 11:43	
EPA 6010D	Iron	0.074	mg/L	0.040	02/16/23 19:41	
EPA 6010D	Potassium	4.6	mg/L	0.20	02/16/23 19:41	
EPA 6010D	Sodium	28.2	mg/L	1.0	02/16/23 19:41	
EPA 6010D	Calcium	43.8	mg/L	1.0	02/16/23 19:41	
EPA 6010D	Magnesium	4.7	mg/L	0.050	02/16/23 19:41	
EPA 6020B	Arsenic	0.014	mg/L	0.0050	02/18/23 19:24	
EPA 6020B	Barium	0.019	mg/L	0.0050	02/18/23 19:24	
EPA 6020B	Beryllium	0.0046	mg/L	0.00050	02/18/23 19:24	
EPA 6020B	Boron	0.61	mg/L	0.040	02/18/23 19:24	
EPA 6020B	Cadmium	0.00053	mg/L	0.00050	02/18/23 19:24	
EPA 6020B	Chromium	0.0013J	mg/L	0.0050	02/18/23 19:24	
EPA 6020B	Cobalt	0.21	mg/L	0.0050	02/18/23 19:24	
EPA 6020B	Lithium	0.025J	mg/L	0.030	02/18/23 19:24	
EPA 6020B	Selenium	0.031	mg/L	0.0050	02/18/23 19:24	
EPA 7470A	Mercury	0.00017J	mg/L	0.00020	02/21/23 15:02	
SM 2540C-2015	Total Dissolved Solids	437	mg/L	25.0	02/08/23 18:54	
EPA 300.0 Rev 2.1 1993	Chloride	14.7	mg/L	1.0	02/07/23 21:43	
EPA 300.0 Rev 2.1 1993	Fluoride	0.90	mg/L	0.10	02/07/23 21:43	
EPA 300.0 Rev 2.1 1993	Sulfate	277	mg/L	6.0	02/08/23 14:50	
<b>92650181013</b>	<b>MCD-AP234-FD-2</b>					
	Performed by	Client			02/14/23 11:44	
	Collected Date	2/3/23			02/14/23 11:44	
	Collected Time	10:15			02/14/23 11:44	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92650181013</b>	<b>MCD-AP234-FD-2</b>					
EPA 6010D	Iron	3.5	mg/L	0.040	02/16/23 19:45	
EPA 6010D	Potassium	13.0	mg/L	0.20	02/16/23 19:45	
EPA 6010D	Sodium	20.3	mg/L	1.0	02/16/23 19:45	
EPA 6010D	Calcium	62.2	mg/L	1.0	02/16/23 19:45	
EPA 6010D	Magnesium	14.1	mg/L	0.050	02/16/23 19:45	
EPA 6020B	Barium	0.014	mg/L	0.0050	02/18/23 19:30	
EPA 6020B	Beryllium	0.0063	mg/L	0.00050	02/18/23 19:30	
EPA 6020B	Boron	0.58	mg/L	0.040	02/18/23 19:30	
EPA 6020B	Cadmium	0.0025	mg/L	0.00050	02/18/23 19:30	
EPA 6020B	Cobalt	0.32	mg/L	0.0050	02/18/23 19:30	
EPA 6020B	Lithium	0.091	mg/L	0.030	02/18/23 19:30	
SM 2540C-2015	Total Dissolved Solids	525	mg/L	25.0	02/08/23 18:54	
EPA 300.0 Rev 2.1 1993	Chloride	8.3	mg/L	1.0	02/08/23 00:55	
EPA 300.0 Rev 2.1 1993	Fluoride	0.45	mg/L	0.10	02/08/23 00:55	
EPA 300.0 Rev 2.1 1993	Sulfate	303	mg/L	6.0	02/08/23 15:04	
<b>92650181014</b>	<b>MCD-DGWC-2</b>					
	Performed by	Client			02/14/23 11:53	
	Collected Date	02/06/23			02/14/23 11:53	
	Collected Time	10:00			02/14/23 11:53	
	pH	5.17	Std. Units		02/14/23 11:53	
EPA 6010D	Potassium	4.8	mg/L	0.20	02/16/23 19:51	
EPA 6010D	Sodium	8.9	mg/L	1.0	02/16/23 19:51	
EPA 6010D	Calcium	35.3	mg/L	1.0	02/16/23 19:51	
EPA 6010D	Magnesium	7.2	mg/L	0.050	02/16/23 19:51	
EPA 6020B	Barium	0.020	mg/L	0.0050	02/18/23 19:35	
EPA 6020B	Boron	0.38	mg/L	0.040	02/18/23 19:35	
EPA 6020B	Cobalt	0.0024J	mg/L	0.0050	02/18/23 19:35	
EPA 6020B	Lithium	0.017J	mg/L	0.030	02/18/23 19:35	
EPA 6020B	Molybdenum	0.0021J	mg/L	0.010	02/18/23 19:35	
EPA 6020B	Selenium	0.0014J	mg/L	0.0050	02/18/23 19:35	
SM 2540C-2015	Total Dissolved Solids	226	mg/L	25.0	02/08/23 18:56	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	46.5	mg/L	5.0	02/09/23 19:43	
SM 2320B-2011	Alkalinity, Total as CaCO3	46.5	mg/L	5.0	02/09/23 19:43	
EPA 300.0 Rev 2.1 1993	Chloride	2.1	mg/L	1.0	02/08/23 16:12	
EPA 300.0 Rev 2.1 1993	Fluoride	0.072J	mg/L	0.10	02/08/23 16:12	
EPA 300.0 Rev 2.1 1993	Sulfate	96.4	mg/L	2.0	02/09/23 03:54	
<b>92650181015</b>	<b>MCD-DGWC-11</b>					
	Performed by	Client			02/14/23 11:55	
	Collected Date	02/06/23			02/14/23 11:55	
	Collected Time	16:36			02/14/23 11:55	
	pH	5.45	Std. Units		02/14/23 11:55	
EPA 6010D	Iron	0.059	mg/L	0.040	02/16/23 19:56	
EPA 6010D	Potassium	3.9	mg/L	0.20	02/16/23 19:56	
EPA 6010D	Sodium	20.6	mg/L	1.0	02/16/23 19:56	
EPA 6010D	Calcium	58.8	mg/L	1.0	02/16/23 19:56	
EPA 6010D	Magnesium	28.6	mg/L	0.050	02/16/23 19:56	

### REPORT OF LABORATORY ANALYSIS

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**SUMMARY OF DETECTION**

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92650181015</b>	<b>MCD-DGWC-11</b>					
EPA 6020B	Barium	0.039	mg/L	0.0050	02/18/23 19:41	
EPA 6020B	Beryllium	0.00019J	mg/L	0.00050	02/18/23 19:41	
EPA 6020B	Boron	1.6	mg/L	0.040	02/18/23 19:41	
EPA 6020B	Cadmium	0.00015J	mg/L	0.00050	02/18/23 19:41	
EPA 6020B	Cobalt	0.0013J	mg/L	0.0050	02/18/23 19:41	
EPA 6020B	Lithium	0.0018J	mg/L	0.030	02/18/23 19:41	
SM 2540C-2015	Total Dissolved Solids	481	mg/L	25.0	02/08/23 18:56	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	14.0	mg/L	5.0	02/08/23 18:06	
SM 2320B-2011	Alkalinity, Total as CaCO3	14.0	mg/L	5.0	02/08/23 18:06	
EPA 300.0 Rev 2.1 1993	Chloride	12.1	mg/L	1.0	02/08/23 16:26	
EPA 300.0 Rev 2.1 1993	Sulfate	273	mg/L	6.0	02/09/23 04:08	
<b>92650181016</b>	<b>MCD-DGWC-12</b>					
	Performed by	Client			02/14/23 11:58	
	Collected Date	02/06/23			02/14/23 11:58	
	Collected Time	13:50			02/14/23 11:58	
	pH	5.90	Std. Units		02/14/23 11:58	
EPA 6010D	Iron	23.9	mg/L	0.040	02/16/23 20:00	
EPA 6010D	Potassium	7.4	mg/L	0.20	02/16/23 20:00	
EPA 6010D	Sodium	9.9	mg/L	1.0	02/16/23 20:00	
EPA 6010D	Calcium	28.3	mg/L	1.0	02/16/23 20:00	
EPA 6010D	Magnesium	17.0	mg/L	0.050	02/16/23 20:00	
EPA 6020B	Barium	0.047	mg/L	0.0050	02/18/23 19:59	
EPA 6020B	Beryllium	0.000082J	mg/L	0.00050	02/18/23 19:59	
EPA 6020B	Boron	0.51	mg/L	0.040	02/18/23 19:59	
EPA 6020B	Cobalt	0.016	mg/L	0.0050	02/18/23 19:59	
SM 2540C-2015	Total Dissolved Solids	251	mg/L	25.0	02/10/23 14:15	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	59.0	mg/L	5.0	02/08/23 18:11	
SM 2320B-2011	Alkalinity, Total as CaCO3	59.0	mg/L	5.0	02/08/23 18:11	
EPA 300.0 Rev 2.1 1993	Chloride	6.8	mg/L	1.0	02/08/23 16:40	
EPA 300.0 Rev 2.1 1993	Fluoride	0.10	mg/L	0.10	02/08/23 16:40	
EPA 300.0 Rev 2.1 1993	Sulfate	142	mg/L	3.0	02/09/23 04:22	
<b>92650181017</b>	<b>MCD-DGWC-17</b>					
	Performed by	Client			02/14/23 11:59	
	Collected Date	02/06/23			02/14/23 11:59	
	Collected Time	10:55			02/14/23 11:59	
	pH	5.13	Std. Units		02/14/23 11:59	
EPA 6010D	Potassium	3.5	mg/L	0.20	02/16/23 20:05	
EPA 6010D	Sodium	17.3	mg/L	1.0	02/16/23 20:05	
EPA 6010D	Calcium	17.5	mg/L	1.0	02/16/23 20:05	
EPA 6010D	Magnesium	51.0	mg/L	0.050	02/16/23 20:05	
EPA 6020B	Barium	0.029	mg/L	0.0050	02/18/23 20:05	
EPA 6020B	Beryllium	0.00051	mg/L	0.00050	02/18/23 20:05	
EPA 6020B	Boron	0.83	mg/L	0.040	02/18/23 20:05	
EPA 6020B	Cadmium	0.00028J	mg/L	0.00050	02/18/23 20:05	
EPA 6020B	Chromium	0.0026J	mg/L	0.0050	02/18/23 20:05	
EPA 6020B	Cobalt	0.017	mg/L	0.0050	02/18/23 20:05	

**REPORT OF LABORATORY ANALYSIS**

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**SUMMARY OF DETECTION**

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92650181017</b>	<b>MCD-DGWC-17</b>					
EPA 6020B	Selenium	0.0057	mg/L	0.0050	02/18/23 20:05	
EPA 7470A	Mercury	0.00014J	mg/L	0.00020	02/21/23 15:21	
SM 2540C-2015	Total Dissolved Solids	403	mg/L	25.0	02/10/23 14:15	
EPA 300.0 Rev 2.1 1993	Chloride	18.8	mg/L	1.0	02/08/23 16:54	
EPA 300.0 Rev 2.1 1993	Fluoride	0.096J	mg/L	0.10	02/08/23 16:54	
EPA 300.0 Rev 2.1 1993	Sulfate	262	mg/L	6.0	02/09/23 04:36	M1
<b>92650181018</b>	<b>MCD-DGWC-19</b>					
	Performed by	Client			02/14/23 12:00	
	Collected Date	02/06/23			02/14/23 12:00	
	Collected Time	12:55			02/14/23 12:00	
	pH	4.82	Std. Units		02/14/23 12:00	
EPA 6010D	Potassium	3.7	mg/L	0.20	02/16/23 20:10	
EPA 6010D	Sodium	37.8	mg/L	1.0	02/16/23 20:10	
EPA 6010D	Calcium	105	mg/L	1.0	02/16/23 20:10	
EPA 6010D	Magnesium	12.0	mg/L	0.050	02/16/23 20:10	
EPA 6020B	Barium	0.025	mg/L	0.0050	02/18/23 20:11	
EPA 6020B	Beryllium	0.0017	mg/L	0.00050	02/18/23 20:11	
EPA 6020B	Boron	2.2	mg/L	0.040	02/18/23 20:11	
EPA 6020B	Cadmium	0.00029J	mg/L	0.00050	02/18/23 20:11	
EPA 6020B	Chromium	0.0022J	mg/L	0.0050	02/18/23 20:11	
EPA 6020B	Cobalt	0.055	mg/L	0.0050	02/18/23 20:11	
EPA 6020B	Lithium	0.0026J	mg/L	0.030	02/18/23 20:11	
EPA 6020B	Selenium	0.0042J	mg/L	0.0050	02/18/23 20:11	
EPA 6020B	Thallium	0.00059J	mg/L	0.0010	02/18/23 20:11	
EPA 7470A	Mercury	0.00013J	mg/L	0.00020	02/21/23 15:23	
SM 2540C-2015	Total Dissolved Solids	600	mg/L	25.0	02/10/23 14:15	
EPA 300.0 Rev 2.1 1993	Chloride	17.9	mg/L	1.0	02/08/23 17:37	
EPA 300.0 Rev 2.1 1993	Fluoride	0.22	mg/L	0.10	02/08/23 17:37	
EPA 300.0 Rev 2.1 1993	Sulfate	379	mg/L	8.0	02/09/23 05:18	
<b>92650181019</b>	<b>MCD-DGWC-22</b>					
	Performed by	Client			02/14/23 12:02	
	Collected Date	02/06/23			02/14/23 12:02	
	Collected Time	15:15			02/14/23 12:02	
	pH	5.84	Std. Units		02/14/23 12:02	
EPA 6010D	Potassium	5.9	mg/L	0.20	02/16/23 20:15	
EPA 6010D	Sodium	25.4	mg/L	1.0	02/16/23 20:15	
EPA 6010D	Calcium	56.7	mg/L	1.0	02/16/23 20:15	
EPA 6010D	Magnesium	19.9	mg/L	0.050	02/16/23 20:15	
EPA 6020B	Barium	0.027	mg/L	0.0050	02/18/23 20:17	
EPA 6020B	Beryllium	0.00010J	mg/L	0.00050	02/18/23 20:17	
EPA 6020B	Boron	3.8	mg/L	0.040	02/18/23 20:17	
EPA 6020B	Cadmium	0.00045J	mg/L	0.00050	02/18/23 20:17	
EPA 6020B	Cobalt	0.0058	mg/L	0.0050	02/18/23 20:17	
EPA 6020B	Lithium	0.0034J	mg/L	0.030	02/18/23 20:17	
EPA 7470A	Mercury	0.00014J	mg/L	0.00020	02/21/23 15:26	
SM 2540C-2015	Total Dissolved Solids	427	mg/L	25.0	02/10/23 14:16	

**REPORT OF LABORATORY ANALYSIS**

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**SUMMARY OF DETECTION**

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92650181019</b>	<b>MCD-DGWC-22</b>					
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	27.3	mg/L	5.0	02/08/23 18:29	
SM 2320B-2011	Alkalinity, Total as CaCO3	27.3	mg/L	5.0	02/08/23 18:29	
EPA 300.0 Rev 2.1 1993	Chloride	16.9	mg/L	1.0	02/08/23 17:52	
EPA 300.0 Rev 2.1 1993	Fluoride	0.057J	mg/L	0.10	02/08/23 17:52	
EPA 300.0 Rev 2.1 1993	Sulfate	235	mg/L	5.0	02/09/23 05:32	
<b>92650181020</b>	<b>MCD-DGWC-23</b>					
	Performed by	Client			02/14/23 12:02	
	Collected Date	02/06/23			02/14/23 12:02	
	Collected Time	14:15			02/14/23 12:02	
	pH	5.97	Std. Units		02/14/23 12:02	
EPA 6010D	Potassium	6.5	mg/L	0.20	02/16/23 20:20	
EPA 6010D	Sodium	22.4	mg/L	1.0	02/16/23 20:20	
EPA 6010D	Calcium	86.4	mg/L	1.0	02/16/23 20:20	
EPA 6010D	Magnesium	20.4	mg/L	0.050	02/16/23 20:20	
EPA 6020B	Barium	0.023	mg/L	0.0050	02/18/23 20:23	
EPA 6020B	Beryllium	0.00038J	mg/L	0.00050	02/18/23 20:23	
EPA 6020B	Boron	4.4	mg/L	0.040	02/18/23 20:23	
EPA 6020B	Cadmium	0.00021J	mg/L	0.00050	02/18/23 20:23	
EPA 6020B	Cobalt	0.00064J	mg/L	0.0050	02/18/23 20:23	
EPA 6020B	Lithium	0.0022J	mg/L	0.030	02/18/23 20:23	
EPA 6020B	Molybdenum	0.0070J	mg/L	0.010	02/18/23 20:23	
SM 2540C-2015	Total Dissolved Solids	532	mg/L	25.0	02/10/23 14:16	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	77.5	mg/L	5.0	02/08/23 18:35	
SM 2320B-2011	Alkalinity, Total as CaCO3	77.5	mg/L	5.0	02/08/23 18:35	
EPA 300.0 Rev 2.1 1993	Chloride	12.4	mg/L	1.0	02/08/23 18:06	
EPA 300.0 Rev 2.1 1993	Fluoride	0.076J	mg/L	0.10	02/08/23 18:06	
EPA 300.0 Rev 2.1 1993	Sulfate	262	mg/L	6.0	02/09/23 06:15	
<b>92650181021</b>	<b>MCD-AP234-EB-4</b>					
EPA 6020B	Boron	0.0097J	mg/L	0.040	02/17/23 14:03	
SM 2540C-2015	Total Dissolved Solids	89.0	mg/L	25.0	02/10/23 14:16	
<b>92650181022</b>	<b>MCD-234-FD-3</b>					
	Performed by	Client			02/14/23 12:06	
	Collected Date	02/06/23			02/14/23 12:06	
	Collected Time	14:15			02/14/23 12:06	
EPA 6010D	Iron	23.7	mg/L	0.040	02/20/23 19:16	M1
EPA 6010D	Potassium	7.1	mg/L	0.20	02/20/23 19:16	M1
EPA 6010D	Sodium	9.8	mg/L	1.0	02/20/23 19:16	
EPA 6010D	Calcium	28.3	mg/L	1.0	02/20/23 19:16	M1
EPA 6010D	Magnesium	16.7	mg/L	0.050	02/20/23 19:16	M1
EPA 6020B	Barium	0.053	mg/L	0.0050	02/17/23 14:09	
EPA 6020B	Beryllium	0.000097J	mg/L	0.00050	02/17/23 14:09	
EPA 6020B	Boron	0.58	mg/L	0.040	02/17/23 14:09	
EPA 6020B	Cobalt	0.018	mg/L	0.0050	02/17/23 14:09	
SM 2540C-2015	Total Dissolved Solids	269	mg/L	25.0	02/10/23 14:16	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	56.9	mg/L	5.0	02/08/23 18:57	
SM 2320B-2011	Alkalinity, Total as CaCO3	56.9	mg/L	5.0	02/08/23 18:57	

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### SUMMARY OF DETECTION

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92650181022</b>	<b>MCD-234-FD-3</b>					
EPA 300.0 Rev 2.1 1993	Chloride	6.8	mg/L	1.0	02/08/23 19:03	
EPA 300.0 Rev 2.1 1993	Fluoride	0.10	mg/L	0.10	02/08/23 19:03	
EPA 300.0 Rev 2.1 1993	Sulfate	141	mg/L	3.0	02/09/23 06:29	
<b>92650181023</b>	<b>MCD-234-FD-5</b>					
	Performed by	Client			02/14/23 12:09	
	Collected Date	02/06/23			02/14/23 12:09	
	Collected Time	14:25			02/14/23 12:09	
EPA 6010D	Potassium	6.5	mg/L	0.20	02/20/23 19:45	
EPA 6010D	Sodium	22.4	mg/L	1.0	02/20/23 19:45	
EPA 6010D	Calcium	87.0	mg/L	1.0	02/20/23 19:45	
EPA 6010D	Magnesium	20.2	mg/L	0.050	02/20/23 19:45	
EPA 6020B	Barium	0.024	mg/L	0.0050	02/17/23 14:14	
EPA 6020B	Beryllium	0.00044J	mg/L	0.00050	02/17/23 14:14	
EPA 6020B	Boron	4.7	mg/L	0.040	02/17/23 14:14	
EPA 6020B	Cadmium	0.00022J	mg/L	0.00050	02/17/23 14:14	
EPA 6020B	Cobalt	0.00071J	mg/L	0.0050	02/17/23 14:14	
EPA 6020B	Lithium	0.0023J	mg/L	0.030	02/17/23 14:14	
EPA 6020B	Molybdenum	0.0072J	mg/L	0.010	02/17/23 14:14	
SM 2540C-2015	Total Dissolved Solids	507	mg/L	25.0	02/10/23 14:16	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	77.8	mg/L	5.0	02/08/23 19:05	
SM 2320B-2011	Alkalinity, Total as CaCO3	77.8	mg/L	5.0	02/08/23 19:05	
EPA 300.0 Rev 2.1 1993	Chloride	12.4	mg/L	1.0	02/08/23 19:18	
EPA 300.0 Rev 2.1 1993	Fluoride	0.074J	mg/L	0.10	02/08/23 19:18	
EPA 300.0 Rev 2.1 1993	Sulfate	260	mg/L	6.0	02/09/23 06:43	
<b>92650181024</b>	<b>MCD-AP234-FB-4</b>					
EPA 6020B	Boron	0.038J	mg/L	0.040	02/17/23 14:20	
<b>92650181025</b>	<b>MCD-DGWC-5</b>					
	Performed by	Client			02/14/23 16:26	
	Collected Date	02/07/23			02/14/23 16:26	
	Collected Time	10:05			02/14/23 16:26	
	pH	4.89	Std. Units		02/14/23 16:26	
EPA 6010D	Iron	0.043	mg/L	0.040	02/20/23 20:09	
EPA 6010D	Potassium	4.1	mg/L	0.20	02/20/23 20:09	
EPA 6010D	Sodium	21.5	mg/L	1.0	02/20/23 20:09	
EPA 6010D	Calcium	139	mg/L	1.0	02/20/23 20:09	
EPA 6010D	Magnesium	24.7	mg/L	0.050	02/20/23 20:09	
EPA 6020B	Arsenic	0.0036J	mg/L	0.0050	02/17/23 14:26	
EPA 6020B	Barium	0.019	mg/L	0.0050	02/17/23 14:26	
EPA 6020B	Beryllium	0.0083	mg/L	0.00050	02/17/23 14:26	
EPA 6020B	Boron	3.5	mg/L	0.040	02/17/23 14:26	
EPA 6020B	Cadmium	0.0012	mg/L	0.00050	02/17/23 14:26	
EPA 6020B	Cobalt	0.021	mg/L	0.0050	02/17/23 14:26	
EPA 6020B	Lithium	0.0072J	mg/L	0.030	02/17/23 14:26	
EPA 6020B	Selenium	0.0082	mg/L	0.0050	02/17/23 14:26	
EPA 7470A	Mercury	0.00026	mg/L	0.00020	02/28/23 08:52	
SM 2540C-2015	Total Dissolved Solids	939	mg/L	25.0	02/13/23 11:04	

### REPORT OF LABORATORY ANALYSIS

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**SUMMARY OF DETECTION**

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92650181025</b>	<b>MCD-DGWC-5</b>					
EPA 300.0 Rev 2.1 1993	Chloride	10.0	mg/L	1.0	02/10/23 14:49	
EPA 300.0 Rev 2.1 1993	Fluoride	0.22	mg/L	0.10	02/10/23 14:49	
EPA 300.0 Rev 2.1 1993	Sulfate	577	mg/L	12.0	02/11/23 07:21	
<b>92650181026</b>	<b>MCD-DGWC-8</b>					
	Performed by	Client			02/14/23 16:27	
	Collected Date	02/07/23			02/14/23 16:27	
	Collected Time	12:05			02/14/23 16:27	
	pH	5.23	Std. Units		02/14/23 16:27	
EPA 6010D	Potassium	3.3	mg/L	0.20	02/20/23 20:14	
EPA 6010D	Sodium	11.2	mg/L	1.0	02/20/23 20:14	
EPA 6010D	Calcium	26.0	mg/L	1.0	02/20/23 20:14	
EPA 6010D	Magnesium	12.5	mg/L	0.050	02/20/23 20:14	
EPA 6020B	Barium	0.025	mg/L	0.0050	02/17/23 14:32	
EPA 6020B	Beryllium	0.00070	mg/L	0.00050	02/17/23 14:32	
EPA 6020B	Boron	0.74	mg/L	0.040	02/17/23 14:32	
EPA 6020B	Cadmium	0.00087	mg/L	0.00050	02/17/23 14:32	
EPA 6020B	Cobalt	0.0018J	mg/L	0.0050	02/17/23 14:32	
EPA 6020B	Lithium	0.0036J	mg/L	0.030	02/17/23 14:32	
SM 2540C-2015	Total Dissolved Solids	223	mg/L	25.0	02/13/23 11:04	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	8.1	mg/L	5.0	02/16/23 10:30	
SM 2320B-2011	Alkalinity, Total as CaCO3	8.1	mg/L	5.0	02/16/23 10:30	
EPA 300.0 Rev 2.1 1993	Chloride	8.7	mg/L	1.0	02/10/23 15:06	
EPA 300.0 Rev 2.1 1993	Fluoride	0.13	mg/L	0.10	02/10/23 15:06	
EPA 300.0 Rev 2.1 1993	Sulfate	118	mg/L	3.0	02/11/23 07:37	
<b>92650181027</b>	<b>MCD-DGWC-20</b>					
	Performed by	Client			02/14/23 16:30	
	Collected Date	02/07/23			02/14/23 16:30	
	Collected Time	10:45			02/14/23 16:30	
	pH	4.33	Std. Units		02/14/23 16:30	
EPA 6010D	Potassium	14.1	mg/L	1.0	02/21/23 14:54	
EPA 6010D	Sodium	20.9	mg/L	5.0	02/21/23 14:54	
EPA 6010D	Calcium	110	mg/L	5.0	02/21/23 14:54	
EPA 6010D	Magnesium	23.6	mg/L	0.25	02/21/23 14:54	
EPA 6020B	Arsenic	0.023	mg/L	0.0050	02/17/23 14:38	
EPA 6020B	Barium	0.019	mg/L	0.0050	02/17/23 14:38	
EPA 6020B	Beryllium	0.0073	mg/L	0.00050	02/17/23 14:38	
EPA 6020B	Boron	3.0	mg/L	0.040	02/17/23 14:38	
EPA 6020B	Cadmium	0.0027	mg/L	0.00050	02/17/23 14:38	
EPA 6020B	Chromium	0.0023J	mg/L	0.0050	02/17/23 14:38	
EPA 6020B	Cobalt	1.0	mg/L	0.0050	02/17/23 14:38	
EPA 6020B	Lithium	0.013J	mg/L	0.030	02/17/23 14:38	
EPA 6020B	Selenium	0.057	mg/L	0.0050	02/17/23 14:38	
EPA 6020B	Thallium	0.0018J	mg/L	0.0050	02/20/23 13:34	D3
SM 2540C-2015	Total Dissolved Solids	848	mg/L	25.0	02/13/23 11:04	
EPA 300.0 Rev 2.1 1993	Chloride	27.9	mg/L	1.0	02/10/23 15:22	
EPA 300.0 Rev 2.1 1993	Fluoride	1.1	mg/L	0.10	02/10/23 15:22	

**REPORT OF LABORATORY ANALYSIS**

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### SUMMARY OF DETECTION

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92650181027</b>	<b>MCD-DGWC-20</b>					
EPA 300.0 Rev 2.1 1993	Sulfate	517	mg/L	11.0	02/11/23 07:53	
<b>92650181028</b>	<b>MCD-DGWC-21</b>					
	Performed by	Client			02/14/23 16:31	
	Collected Date	02/07/23			02/14/23 16:31	
	Collected Time	15:00			02/14/23 16:31	
	pH	5.70	Std. Units		02/14/23 16:31	
EPA 6010D	Potassium	6.3	mg/L	0.20	02/20/23 20:24	
EPA 6010D	Sodium	23.5	mg/L	1.0	02/20/23 20:24	
EPA 6010D	Calcium	84.8	mg/L	1.0	02/20/23 20:24	
EPA 6010D	Magnesium	16.9	mg/L	0.050	02/20/23 20:24	
EPA 6020B	Barium	0.024	mg/L	0.0050	02/17/23 14:44	
EPA 6020B	Beryllium	0.00016J	mg/L	0.00050	02/17/23 14:44	
EPA 6020B	Boron	5.6	mg/L	0.040	02/17/23 14:44	
EPA 6020B	Cadmium	0.00059	mg/L	0.00050	02/17/23 14:44	
EPA 6020B	Cobalt	0.0088	mg/L	0.0050	02/17/23 14:44	
EPA 6020B	Lithium	0.0056J	mg/L	0.030	02/17/23 14:44	
SM 2540C-2015	Total Dissolved Solids	498	mg/L	25.0	02/13/23 11:05	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	28.7	mg/L	5.0	02/16/23 10:39	
SM 2320B-2011	Alkalinity, Total as CaCO3	28.7	mg/L	5.0	02/16/23 10:39	
EPA 300.0 Rev 2.1 1993	Chloride	18.6	mg/L	1.0	02/10/23 16:28	
EPA 300.0 Rev 2.1 1993	Fluoride	0.059J	mg/L	0.10	02/10/23 16:28	
EPA 300.0 Rev 2.1 1993	Sulfate	285	mg/L	6.0	02/11/23 08:09	
<b>92650181029</b>	<b>MCD-AP234-EB-5</b>					
EPA 6020B	Boron	0.018J	mg/L	0.040	02/19/23 00:10	
<b>92650181030</b>	<b>MCD-AP234-FB-5</b>					
EPA 6020B	Boron	0.027J	mg/L	0.040	02/17/23 14:56	
<b>92650181031</b>	<b>MCD-234-FD-6</b>					
	Performed by	Client			02/14/23 16:31	
	Collected Date	2/7/23			02/14/23 16:31	
	Collected Time	15:35			02/14/23 16:31	
EPA 6010D	Potassium	15.0	mg/L	1.0	02/21/23 14:58	
EPA 6010D	Sodium	20.8	mg/L	5.0	02/21/23 14:58	
EPA 6010D	Calcium	110	mg/L	5.0	02/21/23 14:58	
EPA 6010D	Magnesium	23.9	mg/L	0.25	02/21/23 14:58	
EPA 6020B	Arsenic	0.022	mg/L	0.0050	02/17/23 15:26	
EPA 6020B	Barium	0.018	mg/L	0.0050	02/17/23 15:26	
EPA 6020B	Beryllium	0.0071	mg/L	0.00050	02/17/23 15:26	
EPA 6020B	Boron	2.9	mg/L	0.040	02/17/23 15:26	
EPA 6020B	Cadmium	0.0026	mg/L	0.00050	02/17/23 15:26	
EPA 6020B	Chromium	0.0024J	mg/L	0.0050	02/17/23 15:26	
EPA 6020B	Cobalt	0.97	mg/L	0.0050	02/17/23 15:26	
EPA 6020B	Lithium	0.013J	mg/L	0.030	02/17/23 15:26	
EPA 6020B	Selenium	0.056	mg/L	0.0050	02/17/23 15:26	
EPA 6020B	Thallium	0.0020J	mg/L	0.0050	02/17/23 15:32	D3
SM 2540C-2015	Total Dissolved Solids	873	mg/L	25.0	02/13/23 11:39	

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### SUMMARY OF DETECTION

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92650181031</b>	<b>MCD-234-FD-6</b>					
EPA 300.0 Rev 2.1 1993	Chloride	28.1	mg/L	1.0	02/10/23 17:18	
EPA 300.0 Rev 2.1 1993	Fluoride	1.2	mg/L	0.10	02/10/23 17:18	
EPA 300.0 Rev 2.1 1993	Sulfate	517	mg/L	11.0	02/11/23 08:58	

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## PROJECT NARRATIVE

Project: Plant McD AP 2-3/4 DetectionWe  
Pace Project No.: 92650181

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**Date:** July 28, 2023

Georgia Power EQulS Database Manager requested Pace Project Manager remove the sample matrix and date from the Sample IDs. This update ensures sample nomenclature is followed on final PDF and EDD for successful upload of laboratory data into the Georgia Power EQulS database.

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## PROJECT NARRATIVE

Project: Plant McD AP 2-3/4 DetectionWe  
Pace Project No.: 92650181

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**Method:** EPA 6010D  
**Description:** 6010D ATL ICP  
**Client:** Georgia Power  
**Date:** July 28, 2023

### General Information:

31 samples were analyzed for EPA 6010D by Pace Analytical Services Peachtree Corners, GA. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Sample Preparation:

The samples were prepared in accordance with EPA 3010A with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 756097

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92650181001

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

- MS (Lab ID: 3928372)
  - Calcium
  - Magnesium
  - Sodium
- MSD (Lab ID: 3928373)
  - Calcium
  - Magnesium
  - Sodium

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## PROJECT NARRATIVE

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

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**Method:** EPA 6010D

**Description:** 6010D ATL ICP

**Client:** Georgia Power

**Date:** July 28, 2023

QC Batch: 756896

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92650181022

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

- MS (Lab ID: 3932255)
  - Calcium
  - Iron
  - Magnesium
- MSD (Lab ID: 3932256)
  - Calcium
  - Iron
  - Magnesium
  - Potassium

### Additional Comments:

Analyte Comments:

QC Batch: 756896

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- MCD-234-FD-6 (Lab ID: 92650181031)
  - Iron
- MCD-DGWC-20 (Lab ID: 92650181027)
  - Iron

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## PROJECT NARRATIVE

Project: Plant McD AP 2-3/4 DetectionWe  
Pace Project No.: 92650181

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**Method:** EPA 6020B  
**Description:** 6020 MET ICPMS  
**Client:** Georgia Power  
**Date:** July 28, 2023

### General Information:

31 samples were analyzed for EPA 6020B by Pace Analytical Services Peachtree Corners, GA. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Sample Preparation:

The samples were prepared in accordance with EPA 3005A with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### Additional Comments:

Analyte Comments:

QC Batch: 756102

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- MCD-DGWC-10 (Lab ID: 92650181005)
  - Lead
  - Thallium
- MCD-DGWC-9 (Lab ID: 92650181012)
  - Lead
  - Thallium

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## PROJECT NARRATIVE

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

---

**Method:** EPA 6020B

**Description:** 6020 MET ICPMS

**Client:** Georgia Power

**Date:** July 28, 2023

Analyte Comments:

QC Batch: 756320

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- MCD-234-FD-6 (Lab ID: 92650181031)
  - Lead
  - Thallium
- MCD-DGWC-20 (Lab ID: 92650181027)
  - Lead
  - Thallium

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Plant McD AP 2-3/4 DetectionWe  
Pace Project No.: 92650181

---

**Method:** EPA 7470A  
**Description:** 7470 Mercury  
**Client:** Georgia Power  
**Date:** July 28, 2023

### General Information:

31 samples were analyzed for EPA 7470A by Pace Analytical Services Peachtree Corners, GA. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Sample Preparation:

The samples were prepared in accordance with EPA 7470A with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### Additional Comments:

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Plant McD AP 2-3/4 DetectionWe  
Pace Project No.: 92650181

---

**Method:** SM 2540C-2015  
**Description:** 2540C Total Dissolved Solids  
**Client:** Georgia Power  
**Date:** July 28, 2023

### General Information:

31 samples were analyzed for SM 2540C-2015 by Pace Analytical Services Peachtree Corners, GA. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: 754311

D6: The precision between the sample and sample duplicate exceeded laboratory control limits.

- DUP (Lab ID: 3918594)
- Total Dissolved Solids

QC Batch: 754576

D6: The precision between the sample and sample duplicate exceeded laboratory control limits.

- DUP (Lab ID: 3921107)
- Total Dissolved Solids

QC Batch: 754918

D6: The precision between the sample and sample duplicate exceeded laboratory control limits.

- DUP (Lab ID: 3921955)

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## PROJECT NARRATIVE

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

---

**Method:** SM 2540C-2015

**Description:** 2540C Total Dissolved Solids

**Client:** Georgia Power

**Date:** July 28, 2023

QC Batch: 754918

D6: The precision between the sample and sample duplicate exceeded laboratory control limits.

- Total Dissolved Solids

QC Batch: 755437

D6: The precision between the sample and sample duplicate exceeded laboratory control limits.

- DUP (Lab ID: 3924938)
- Total Dissolved Solids

### Additional Comments:

Analyte Comments:

QC Batch: 754118

1g: Sample residue exceeded method SM 2540C recommended 200 mg.

- DUP (Lab ID: 3917653)
- Total Dissolved Solids

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Plant McD AP 2-3/4 DetectionWe  
Pace Project No.: 92650181

---

**Method:** SM 2320B-2011  
**Description:** 2320B Alkalinity  
**Client:** Georgia Power  
**Date:** July 28, 2023

### General Information:

31 samples were analyzed for SM 2320B-2011 by Pace Analytical Services Asheville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 754413

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92650181010,92650181012

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

- MS (Lab ID: 3919375)
  - Alkalinity, Total as CaCO<sub>3</sub>
- MSD (Lab ID: 3919376)
  - Alkalinity, Total as CaCO<sub>3</sub>

QC Batch: 755965

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92649235057,92649235058

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

- MSD (Lab ID: 3927501)
  - Alkalinity, Total as CaCO<sub>3</sub>

### Additional Comments:

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Plant McD AP 2-3/4 DetectionWe  
Pace Project No.: 92650181

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**Method:** EPA 300.0 Rev 2.1 1993  
**Description:** 300.0 IC Anions 28 Days  
**Client:** Georgia Power  
**Date:** July 28, 2023

### General Information:

31 samples were analyzed for EPA 300.0 Rev 2.1 1993 by Pace Analytical Services Asheville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of-custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 753991

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92650019010,92650181004

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

- MS (Lab ID: 3916902)
  - Fluoride
- MS (Lab ID: 3916904)
  - Sulfate
- MSD (Lab ID: 3916903)
  - Fluoride
- MSD (Lab ID: 3916905)
  - Sulfate

QC Batch: 754259

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92650182006,92650416003

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

- MS (Lab ID: 3918327)
  - Sulfate
- MSD (Lab ID: 3918328)
  - Sulfate

QC Batch: 754531

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92650181017,92650810001

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

- MS (Lab ID: 3919922)
  - Sulfate

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

---

**Method:** EPA 300.0 Rev 2.1 1993

**Description:** 300.0 IC Anions 28 Days

**Client:** Georgia Power

**Date:** July 28, 2023

QC Batch: 755106

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92651103002,92651415001

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

- MS (Lab ID: 3923331)
  - Fluoride
- MSD (Lab ID: 3923332)
  - Fluoride

### Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

Sample: MCD-DGWC-42		Lab ID: 92650181001		Collected: 02/01/23 13:20		Received: 02/02/23 11:36		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Monitoring Well Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Client</b>				1		02/14/23 11:29		
Collected Date	<b>02/01/23</b>				1		02/14/23 11:29		
Collected Time	<b>13:25</b>				1		02/14/23 11:29		
pH	<b>5.17</b>	Std. Units			1		02/14/23 11:29		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	<b>0.12</b>	mg/L	0.040	0.025	1	02/15/23 17:16	02/16/23 18:08	7439-89-6	
Potassium	<b>4.4</b>	mg/L	0.20	0.15	1	02/15/23 17:16	02/16/23 18:08	7440-09-7	
Sodium	<b>65.5</b>	mg/L	1.0	0.58	1	02/15/23 17:16	02/16/23 18:08	7440-23-5	M1
Calcium	<b>32.7</b>	mg/L	1.0	0.12	1	02/15/23 17:16	02/16/23 18:08	7440-70-2	M1
Magnesium	<b>23.8</b>	mg/L	0.050	0.012	1	02/15/23 17:16	02/16/23 18:08	7439-95-4	M1
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/15/23 17:16	02/18/23 17:48	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/15/23 17:16	02/18/23 17:48	7440-38-2	
Barium	<b>0.015</b>	mg/L	0.0050	0.00067	1	02/15/23 17:16	02/18/23 17:48	7440-39-3	
Beryllium	<b>0.0022</b>	mg/L	0.00050	0.000054	1	02/15/23 17:16	02/18/23 17:48	7440-41-7	
Boron	<b>0.94</b>	mg/L	0.040	0.0086	1	02/15/23 17:16	02/18/23 17:48	7440-42-8	
Cadmium	<b>0.00075</b>	mg/L	0.00050	0.00011	1	02/15/23 17:16	02/18/23 17:48	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/15/23 17:16	02/18/23 17:48	7440-47-3	
Cobalt	<b>0.0068</b>	mg/L	0.0050	0.00039	1	02/15/23 17:16	02/18/23 17:48	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/15/23 17:16	02/18/23 17:48	7439-92-1	
Lithium	<b>0.0068J</b>	mg/L	0.030	0.00073	1	02/15/23 17:16	02/18/23 17:48	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/15/23 17:16	02/18/23 17:48	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/15/23 17:16	02/18/23 17:48	7782-49-2	
Thallium	<b>0.00028J</b>	mg/L	0.0010	0.00018	1	02/15/23 17:16	02/18/23 17:48	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/21/23 10:45	02/21/23 14:20	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>541</b>	mg/L	25.0	25.0	1		02/05/23 14:06		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	<b>7.3</b>	mg/L	5.0	5.0	1		02/07/23 15:10		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/07/23 15:10		
Alkalinity, Total as CaCO3	<b>7.3</b>	mg/L	5.0	5.0	1		02/07/23 15:10		

## REPORT OF LABORATORY ANALYSIS

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**ANALYTICAL RESULTS**

Project: Plant McD AP 2-3/4 DetectionWe  
 Pace Project No.: 92650181

**Sample: MCD-DGWC-42**      **Lab ID: 92650181001**      Collected: 02/01/23 13:20      Received: 02/02/23 11:36      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>19.3</b>	mg/L	1.0	0.60	1		02/06/23 20:12	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/06/23 20:12	16984-48-8	
Sulfate	<b>313</b>	mg/L	7.0	3.5	7		02/07/23 07:21	14808-79-8	

**REPORT OF LABORATORY ANALYSIS**

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### ANALYTICAL RESULTS

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

**Sample: MCD-DGWC-13**      **Lab ID: 92650181002**      Collected: 02/01/23 16:16      Received: 02/02/23 11:36      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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**Monitoring Well Data**

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>Client</b>				1		02/14/23 11:30		
Collected Date	<b>02/01/23</b>				1		02/14/23 11:30		
Collected Time	<b>16:21</b>				1		02/14/23 11:30		
pH	<b>5.54</b>	Std. Units			1		02/14/23 11:30		

**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	02/15/23 17:16	02/16/23 18:42	7439-89-6	
Potassium	<b>4.5</b>	mg/L	0.20	0.15	1	02/15/23 17:16	02/16/23 18:42	7440-09-7	
Sodium	<b>19.1</b>	mg/L	1.0	0.58	1	02/15/23 17:16	02/16/23 18:42	7440-23-5	
Calcium	<b>33.6</b>	mg/L	1.0	0.12	1	02/15/23 17:16	02/16/23 18:42	7440-70-2	
Magnesium	<b>7.1</b>	mg/L	0.050	0.012	1	02/15/23 17:16	02/16/23 18:42	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	02/15/23 17:16	02/18/23 17:54	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/15/23 17:16	02/18/23 17:54	7440-38-2	
Barium	<b>0.023</b>	mg/L	0.0050	0.00067	1	02/15/23 17:16	02/18/23 17:54	7440-39-3	
Beryllium	<b>0.000067J</b>	mg/L	0.00050	0.000054	1	02/15/23 17:16	02/18/23 17:54	7440-41-7	
Boron	<b>0.54</b>	mg/L	0.040	0.0086	1	02/15/23 17:16	02/18/23 17:54	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/15/23 17:16	02/18/23 17:54	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/15/23 17:16	02/18/23 17:54	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/15/23 17:16	02/18/23 17:54	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/15/23 17:16	02/18/23 17:54	7439-92-1	
Lithium	<b>0.0031J</b>	mg/L	0.030	0.00073	1	02/15/23 17:16	02/18/23 17:54	7439-93-2	
Molybdenum	<b>0.0085J</b>	mg/L	0.010	0.00074	1	02/15/23 17:16	02/18/23 17:54	7439-98-7	
Selenium	<b>0.0036J</b>	mg/L	0.0050	0.0014	1	02/15/23 17:16	02/18/23 17:54	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/15/23 17:16	02/18/23 17:54	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	02/21/23 10:45	02/21/23 14:23	7439-97-6	
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**2540C Total Dissolved Solids**

Analytical Method: SM 2540C-2015  
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	<b>216</b>	mg/L	25.0	25.0	1		02/05/23 14:06		
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**2320B Alkalinity**

Analytical Method: SM 2320B-2011  
Pace Analytical Services - Asheville

Alkalinity,Bicarbonate (CaCO3)	<b>22.9</b>	mg/L	5.0	5.0	1		02/07/23 15:16		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/07/23 15:16		
Alkalinity, Total as CaCO3	<b>22.9</b>	mg/L	5.0	5.0	1		02/07/23 15:16		

### REPORT OF LABORATORY ANALYSIS

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**ANALYTICAL RESULTS**

Project: Plant McD AP 2-3/4 DetectionWe  
 Pace Project No.: 92650181

**Sample: MCD-DGWC-13**      **Lab ID: 92650181002**      Collected: 02/01/23 16:16      Received: 02/02/23 11:36      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>12.2</b>	mg/L	1.0	0.60	1		02/06/23 20:37	16887-00-6	
Fluoride	<b>0.090J</b>	mg/L	0.10	0.050	1		02/06/23 20:37	16984-48-8	
Sulfate	<b>97.5</b>	mg/L	2.0	1.0	2		02/07/23 09:04	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

**Sample: MCD-DGWC-14**      **Lab ID: 92650181003**      Collected: 02/01/23 16:35      Received: 02/02/23 11:36      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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**Monitoring Well Data**

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>Client</b>				1		02/14/23 11:33		
Collected Date	<b>02/01/23</b>				1		02/14/23 11:33		
Collected Time	<b>16:40</b>				1		02/14/23 11:33		
pH	<b>5.87</b>	Std. Units			1		02/14/23 11:33		

**6010D ATL ICP**

Analytical Method: EPA 6010D      Preparation Method: EPA 3010A  
Pace Analytical Services - Peachtree Corners, GA

Iron	<b>0.045</b>	mg/L	0.040	0.025	1	02/15/23 17:16	02/16/23 18:47	7439-89-6	
Potassium	<b>7.4</b>	mg/L	0.20	0.15	1	02/15/23 17:16	02/16/23 18:47	7440-09-7	
Sodium	<b>8.1</b>	mg/L	1.0	0.58	1	02/15/23 17:16	02/16/23 18:47	7440-23-5	
Calcium	<b>11.9</b>	mg/L	1.0	0.12	1	02/15/23 17:16	02/16/23 18:47	7440-70-2	
Magnesium	<b>4.5</b>	mg/L	0.050	0.012	1	02/15/23 17:16	02/16/23 18:47	7439-95-4	

**6020 MET ICPMS**

Analytical Method: EPA 6020B      Preparation Method: EPA 3005A  
Pace Analytical Services - Peachtree Corners, GA

Antimony	<b>0.0010J</b>	mg/L	0.0030	0.00078	1	02/15/23 17:16	02/18/23 18:18	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/15/23 17:16	02/18/23 18:18	7440-38-2	
Barium	<b>0.057</b>	mg/L	0.0050	0.00067	1	02/15/23 17:16	02/18/23 18:18	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/15/23 17:16	02/18/23 18:18	7440-41-7	
Boron	<b>0.16</b>	mg/L	0.040	0.0086	1	02/15/23 17:16	02/18/23 18:18	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/15/23 17:16	02/18/23 18:18	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/15/23 17:16	02/18/23 18:18	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/15/23 17:16	02/18/23 18:18	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/15/23 17:16	02/18/23 18:18	7439-92-1	
Lithium	<b>0.018J</b>	mg/L	0.030	0.00073	1	02/15/23 17:16	02/18/23 18:18	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/15/23 17:16	02/18/23 18:18	7439-98-7	
Selenium	<b>0.0014J</b>	mg/L	0.0050	0.0014	1	02/15/23 17:16	02/18/23 18:18	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/15/23 17:16	02/18/23 18:18	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	02/21/23 10:45	02/21/23 14:26	7439-97-6	
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**2540C Total Dissolved Solids**

Analytical Method: SM 2540C-2015  
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	<b>116</b>	mg/L	25.0	25.0	1		02/05/23 14:07		
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**2320B Alkalinity**

Analytical Method: SM 2320B-2011  
Pace Analytical Services - Asheville

Alkalinity,Bicarbonate (CaCO3)	<b>27.4</b>	mg/L	5.0	5.0	1		02/07/23 15:22		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/07/23 15:22		
Alkalinity, Total as CaCO3	<b>27.4</b>	mg/L	5.0	5.0	1		02/07/23 15:22		

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**ANALYTICAL RESULTS**

Project: Plant McD AP 2-3/4 DetectionWe  
 Pace Project No.: 92650181

Sample: MCD-DGWC-14		Lab ID: 92650181003		Collected: 02/01/23 16:35		Received: 02/02/23 11:36		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	<b>4.5</b>	mg/L	1.0	0.60	1		02/06/23 21:03	16887-00-6	
Fluoride	<b>0.067J</b>	mg/L	0.10	0.050	1		02/06/23 21:03	16984-48-8	
Sulfate	<b>45.9</b>	mg/L	1.0	0.50	1		02/06/23 21:03	14808-79-8	

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## ANALYTICAL RESULTS

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

Sample: MCD-AP234-FD-4 Lab ID: 92650181004 Collected: 02/01/23 00:00 Received: 02/02/23 11:36 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>Monitoring Well Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Client</b>				1		02/14/23 11:34		
Collected Date	<b>02/01/23</b>				1		02/14/23 11:34		
Collected Time	<b>00:00</b>				1		02/14/23 11:34		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	<b>0.12</b>	mg/L	0.040	0.025	1	02/15/23 17:16	02/16/23 18:52	7439-89-6	
Potassium	<b>4.6</b>	mg/L	0.20	0.15	1	02/15/23 17:16	02/16/23 18:52	7440-09-7	
Sodium	<b>68.8</b>	mg/L	1.0	0.58	1	02/15/23 17:16	02/16/23 18:52	7440-23-5	
Calcium	<b>34.1</b>	mg/L	1.0	0.12	1	02/15/23 17:16	02/16/23 18:52	7440-70-2	
Magnesium	<b>24.9</b>	mg/L	0.050	0.012	1	02/15/23 17:16	02/16/23 18:52	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/15/23 17:16	02/18/23 18:24	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/15/23 17:16	02/18/23 18:24	7440-38-2	
Barium	<b>0.016</b>	mg/L	0.0050	0.00067	1	02/15/23 17:16	02/18/23 18:24	7440-39-3	
Beryllium	<b>0.0023</b>	mg/L	0.00050	0.000054	1	02/15/23 17:16	02/18/23 18:24	7440-41-7	
Boron	<b>1.0</b>	mg/L	0.040	0.0086	1	02/15/23 17:16	02/18/23 18:24	7440-42-8	
Cadmium	<b>0.00086</b>	mg/L	0.00050	0.00011	1	02/15/23 17:16	02/18/23 18:24	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/15/23 17:16	02/18/23 18:24	7440-47-3	
Cobalt	<b>0.0074</b>	mg/L	0.0050	0.00039	1	02/15/23 17:16	02/18/23 18:24	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/15/23 17:16	02/18/23 18:24	7439-92-1	
Lithium	<b>0.0074J</b>	mg/L	0.030	0.00073	1	02/15/23 17:16	02/18/23 18:24	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/15/23 17:16	02/18/23 18:24	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/15/23 17:16	02/18/23 18:24	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/15/23 17:16	02/18/23 18:24	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/21/23 10:45	02/21/23 14:36	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>536</b>	mg/L	25.0	25.0	1		02/05/23 14:07		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	<b>8.5</b>	mg/L	5.0	5.0	1		02/07/23 15:28		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/07/23 15:28		
Alkalinity, Total as CaCO3	<b>8.5</b>	mg/L	5.0	5.0	1		02/07/23 15:28		

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### ANALYTICAL RESULTS

Project: Plant McD AP 2-3/4 DetectionWe  
 Pace Project No.: 92650181

Sample: **MCD-AP234-FD-4** Lab ID: **92650181004** Collected: 02/01/23 00:00 Received: 02/02/23 11:36 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>19.2</b>	mg/L	1.0	0.60	1		02/06/23 22:21	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/06/23 22:21	16984-48-8	
Sulfate	<b>309</b>	mg/L	7.0	3.5	7		02/07/23 09:29	14808-79-8	M1

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### ANALYTICAL RESULTS

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

**Sample: MCD-DGWC-10**      **Lab ID: 92650181005**      Collected: 02/02/23 10:10      Received: 02/03/23 16:23      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				

**Monitoring Well Data**

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>Client</b>				1	02/14/23 11:36			
Collected Date	<b>02/02/23</b>				1	02/14/23 11:36			
Collected Time	<b>10:15</b>				1	02/14/23 11:36			
pH	<b>4.67</b>	Std. Units			1	02/14/23 11:36			

**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	02/15/23 17:16	02/16/23 18:57	7439-89-6	
Potassium	<b>5.5</b>	mg/L	0.20	0.15	1	02/15/23 17:16	02/16/23 18:57	7440-09-7	
Sodium	<b>9.9</b>	mg/L	1.0	0.58	1	02/15/23 17:16	02/16/23 18:57	7440-23-5	
Calcium	<b>60.8</b>	mg/L	1.0	0.12	1	02/15/23 17:16	02/16/23 18:57	7440-70-2	
Magnesium	<b>5.7</b>	mg/L	0.050	0.012	1	02/15/23 17:16	02/16/23 18:57	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	02/15/23 17:16	02/18/23 18:30	7440-36-0	
Arsenic	<b>0.0036J</b>	mg/L	0.0050	0.0022	1	02/15/23 17:16	02/18/23 18:30	7440-38-2	
Barium	<b>0.020</b>	mg/L	0.0050	0.00067	1	02/15/23 17:16	02/18/23 18:30	7440-39-3	
Beryllium	<b>0.0066</b>	mg/L	0.00050	0.000054	1	02/15/23 17:16	02/18/23 18:30	7440-41-7	
Boron	<b>0.34</b>	mg/L	0.040	0.0086	1	02/15/23 17:16	02/18/23 18:30	7440-42-8	
Cadmium	<b>0.00059</b>	mg/L	0.00050	0.00011	1	02/15/23 17:16	02/18/23 18:30	7440-43-9	
Chromium	<b>0.0013J</b>	mg/L	0.0050	0.0011	1	02/15/23 17:16	02/18/23 18:30	7440-47-3	
Cobalt	<b>0.11</b>	mg/L	0.0050	0.00039	1	02/15/23 17:16	02/18/23 18:30	7440-48-4	
Lead	ND	mg/L	0.0050	0.0044	5	02/15/23 17:16	02/20/23 13:22	7439-92-1	D3
Lithium	<b>0.0049J</b>	mg/L	0.030	0.00073	1	02/15/23 17:16	02/18/23 18:30	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/15/23 17:16	02/18/23 18:30	7439-98-7	
Selenium	<b>0.015</b>	mg/L	0.0050	0.0014	1	02/15/23 17:16	02/18/23 18:30	7782-49-2	
Thallium	ND	mg/L	0.0050	0.00090	5	02/15/23 17:16	02/20/23 13:22	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	02/21/23 10:45	02/21/23 14:39	7439-97-6	
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**2540C Total Dissolved Solids**

Analytical Method: SM 2540C-2015  
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	<b>390</b>	mg/L	25.0	25.0	1		02/07/23 18:42		
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**2320B Alkalinity**

Analytical Method: SM 2320B-2011  
Pace Analytical Services - Asheville

Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/08/23 14:47		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/08/23 14:47		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		02/08/23 14:47		

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### ANALYTICAL RESULTS

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

Sample: MCD-DGWC-10 Lab ID: 92650181005 Collected: 02/02/23 10:10 Received: 02/03/23 16:23 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	9.9	mg/L	1.0	0.60	1		02/08/23 07:51	16887-00-6	
Fluoride	1.1	mg/L	0.10	0.050	1		02/08/23 07:51	16984-48-8	
Sulfate	235	mg/L	5.0	2.5	5		02/08/23 14:41	14808-79-8	

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## ANALYTICAL RESULTS

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

Sample: MCD-DGWC-15		Lab ID: 92650181006		Collected: 02/02/23 15:00		Received: 02/03/23 16:23		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Monitoring Well Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Client</b>				1		02/14/23 11:39		
Collected Date	<b>02/02/23</b>				1		02/14/23 11:39		
Collected Time	<b>15:05</b>				1		02/14/23 11:39		
pH	<b>5.86</b>	Std. Units			1		02/14/23 11:39		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	<b>0.11</b>	mg/L	0.040	0.025	1	02/15/23 17:16	02/16/23 19:02	7439-89-6	
Potassium	<b>4.2</b>	mg/L	0.20	0.15	1	02/15/23 17:16	02/16/23 19:02	7440-09-7	
Sodium	<b>19.7</b>	mg/L	1.0	0.58	1	02/15/23 17:16	02/16/23 19:02	7440-23-5	
Calcium	<b>32.2</b>	mg/L	1.0	0.12	1	02/15/23 17:16	02/16/23 19:02	7440-70-2	
Magnesium	<b>13.6</b>	mg/L	0.050	0.012	1	02/15/23 17:16	02/16/23 19:02	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/15/23 17:16	02/18/23 18:48	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/15/23 17:16	02/18/23 18:48	7440-38-2	
Barium	<b>0.039</b>	mg/L	0.0050	0.00067	1	02/15/23 17:16	02/18/23 18:48	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/15/23 17:16	02/18/23 18:48	7440-41-7	
Boron	<b>1.3</b>	mg/L	0.040	0.0086	1	02/15/23 17:16	02/18/23 18:48	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/15/23 17:16	02/18/23 18:48	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/15/23 17:16	02/18/23 18:48	7440-47-3	
Cobalt	<b>0.0017J</b>	mg/L	0.0050	0.00039	1	02/15/23 17:16	02/18/23 18:48	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/15/23 17:16	02/18/23 18:48	7439-92-1	
Lithium	<b>0.0050J</b>	mg/L	0.030	0.00073	1	02/15/23 17:16	02/18/23 18:48	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/15/23 17:16	02/18/23 18:48	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/15/23 17:16	02/18/23 18:48	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/15/23 17:16	02/18/23 18:48	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/21/23 10:45	02/21/23 14:47	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>288</b>	mg/L	25.0	25.0	1		02/07/23 18:42		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	<b>17.4</b>	mg/L	5.0	5.0	1		02/08/23 14:52		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/08/23 14:52		
Alkalinity, Total as CaCO3	<b>17.4</b>	mg/L	5.0	5.0	1		02/08/23 14:52		

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### ANALYTICAL RESULTS

Project: Plant McD AP 2-3/4 DetectionWe  
 Pace Project No.: 92650181

Sample: MCD-DGWC-15		Lab ID: 92650181006		Collected: 02/02/23 15:00		Received: 02/03/23 16:23		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	<b>22.1</b>	mg/L	1.0	0.60	1		02/08/23 08:07	16887-00-6	
Fluoride	<b>0.065J</b>	mg/L	0.10	0.050	1		02/08/23 08:07	16984-48-8	
Sulfate	<b>137</b>	mg/L	3.0	1.5	3		02/08/23 14:57	14808-79-8	

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## ANALYTICAL RESULTS

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

Sample: MCD-DGWC-47		Lab ID: 92650181007		Collected: 02/03/23 12:47		Received: 02/03/23 16:23		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Monitoring Well Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Client</b>				1		02/14/23 11:40		
Collected Date	<b>02/03/23</b>				1		02/14/23 11:40		
Collected Time	<b>12:52</b>				1		02/14/23 11:40		
pH	<b>3.88</b>	Std. Units			1		02/14/23 11:40		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	<b>0.87</b>	mg/L	0.040	0.025	1	02/15/23 17:16	02/16/23 19:07	7439-89-6	
Potassium	<b>4.8</b>	mg/L	0.20	0.15	1	02/15/23 17:16	02/16/23 19:07	7440-09-7	
Sodium	<b>7.0</b>	mg/L	1.0	0.58	1	02/15/23 17:16	02/16/23 19:07	7440-23-5	
Calcium	<b>23.7</b>	mg/L	1.0	0.12	1	02/15/23 17:16	02/16/23 19:07	7440-70-2	
Magnesium	<b>6.7</b>	mg/L	0.050	0.012	1	02/15/23 17:16	02/16/23 19:07	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/15/23 17:16	02/18/23 18:54	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/15/23 17:16	02/18/23 18:54	7440-38-2	
Barium	<b>0.019</b>	mg/L	0.0050	0.00067	1	02/15/23 17:16	02/18/23 18:54	7440-39-3	
Beryllium	<b>0.0087</b>	mg/L	0.00050	0.000054	1	02/15/23 17:16	02/18/23 18:54	7440-41-7	
Boron	<b>0.16</b>	mg/L	0.040	0.0086	1	02/15/23 17:16	02/18/23 18:54	7440-42-8	
Cadmium	<b>0.0013</b>	mg/L	0.00050	0.00011	1	02/15/23 17:16	02/18/23 18:54	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/15/23 17:16	02/18/23 18:54	7440-47-3	
Cobalt	<b>0.21</b>	mg/L	0.0050	0.00039	1	02/15/23 17:16	02/18/23 18:54	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/15/23 17:16	02/18/23 18:54	7439-92-1	
Lithium	<b>0.048</b>	mg/L	0.030	0.00073	1	02/15/23 17:16	02/18/23 18:54	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/15/23 17:16	02/18/23 18:54	7439-98-7	
Selenium	<b>0.0015J</b>	mg/L	0.0050	0.0014	1	02/15/23 17:16	02/18/23 18:54	7782-49-2	
Thallium	<b>0.00022J</b>	mg/L	0.0010	0.00018	1	02/15/23 17:16	02/18/23 18:54	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/21/23 10:45	02/21/23 14:49	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>259</b>	mg/L	25.0	25.0	1		02/07/23 13:21		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/08/23 16:40		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/08/23 16:40		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		02/08/23 16:40		

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### ANALYTICAL RESULTS

Project: Plant McD AP 2-3/4 DetectionWe  
 Pace Project No.: 92650181

Sample: MCD-DGWC-47      Lab ID: 92650181007      Collected: 02/03/23 12:47      Received: 02/03/23 16:23      Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>2.6</b>	mg/L	1.0	0.60	1		02/07/23 19:28	16887-00-6	
Fluoride	<b>0.45</b>	mg/L	0.10	0.050	1		02/07/23 19:28	16984-48-8	
Sulfate	<b>138</b>	mg/L	3.0	1.5	3		02/08/23 13:07	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

**Sample: MCD-DGWC-4**      **Lab ID: 92650181008**      Collected: 02/03/23 12:25      Received: 02/03/23 16:23      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				

**Monitoring Well Data**

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>Client</b>				1	02/14/23 11:41			
Collected Date	<b>02/03/23</b>				1	02/14/23 11:41			
Collected Time	<b>12:30</b>				1	02/14/23 11:41			
pH	<b>5.77</b>	Std. Units			1	02/14/23 11:41			

**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	02/15/23 17:16	02/16/23 19:11	7439-89-6
Potassium	<b>9.5</b>	mg/L	0.20	0.15	1	02/15/23 17:16	02/16/23 19:11	7440-09-7
Sodium	<b>53.6</b>	mg/L	1.0	0.58	1	02/15/23 17:16	02/16/23 19:11	7440-23-5
Calcium	<b>287</b>	mg/L	1.0	0.12	1	02/15/23 17:16	02/16/23 19:11	7440-70-2
Magnesium	<b>37.0</b>	mg/L	0.050	0.012	1	02/15/23 17:16	02/16/23 19:11	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	02/15/23 17:16	02/18/23 19:00	7440-36-0
Arsenic	ND	mg/L	0.0050	0.0022	1	02/15/23 17:16	02/18/23 19:00	7440-38-2
Barium	<b>0.034</b>	mg/L	0.0050	0.00067	1	02/15/23 17:16	02/18/23 19:00	7440-39-3
Beryllium	<b>0.00033J</b>	mg/L	0.00050	0.000054	1	02/15/23 17:16	02/18/23 19:00	7440-41-7
Boron	<b>4.5</b>	mg/L	0.040	0.0086	1	02/15/23 17:16	02/18/23 19:00	7440-42-8
Cadmium	<b>0.0010</b>	mg/L	0.00050	0.00011	1	02/15/23 17:16	02/18/23 19:00	7440-43-9
Chromium	ND	mg/L	0.0050	0.0011	1	02/15/23 17:16	02/18/23 19:00	7440-47-3
Cobalt	<b>0.0018J</b>	mg/L	0.0050	0.00039	1	02/15/23 17:16	02/18/23 19:00	7440-48-4
Lead	ND	mg/L	0.0010	0.00089	1	02/15/23 17:16	02/18/23 19:00	7439-92-1
Lithium	<b>0.0036J</b>	mg/L	0.030	0.00073	1	02/15/23 17:16	02/18/23 19:00	7439-93-2
Molybdenum	<b>0.0035J</b>	mg/L	0.010	0.00074	1	02/15/23 17:16	02/18/23 19:00	7439-98-7
Selenium	ND	mg/L	0.0050	0.0014	1	02/15/23 17:16	02/18/23 19:00	7782-49-2
Thallium	ND	mg/L	0.0010	0.00018	1	02/15/23 17:16	02/18/23 19:00	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	02/21/23 10:45	02/21/23 14:52	7439-97-6
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**2540C Total Dissolved Solids**

Analytical Method: SM 2540C-2015  
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	<b>1630</b>	mg/L	25.0	25.0	1	02/07/23 13:21		
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**2320B Alkalinity**

Analytical Method: SM 2320B-2011  
Pace Analytical Services - Asheville

Alkalinity,Bicarbonate (CaCO3)	<b>121</b>	mg/L	5.0	5.0	1	02/08/23 16:43		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1	02/08/23 16:43		
Alkalinity, Total as CaCO3	<b>121</b>	mg/L	5.0	5.0	1	02/08/23 16:43		

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### ANALYTICAL RESULTS

Project: Plant McD AP 2-3/4 DetectionWe  
 Pace Project No.: 92650181

Sample: MCD-DGWC-4		Lab ID: 92650181008		Collected: 02/03/23 12:25		Received: 02/03/23 16:23		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	<b>11.0</b>	mg/L	1.0	0.60	1		02/07/23 20:43	16887-00-6	
Fluoride	<b>0.096J</b>	mg/L	0.10	0.050	1		02/07/23 20:43	16984-48-8	
Sulfate	<b>949</b>	mg/L	20.0	10.0	20		02/08/23 14:20	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

**Sample: MCD-DGWC-48**      **Lab ID: 92650181009**      Collected: 02/03/23 09:50      Received: 02/03/23 16:23      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				

**Monitoring Well Data**

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>Client</b>				1	02/14/23 11:41			
Collected Date	<b>02/03/23</b>				1	02/14/23 11:41			
Collected Time	<b>09:55</b>				1	02/14/23 11:41			
pH	<b>4.20</b>	Std. Units			1	02/14/23 11:41			

**6010D ATL ICP**

Analytical Method: EPA 6010D      Preparation Method: EPA 3010A  
Pace Analytical Services - Peachtree Corners, GA

Iron	<b>3.6</b>	mg/L	0.040	0.025	1	02/15/23 17:16	02/16/23 19:17	7439-89-6
Potassium	<b>13.3</b>	mg/L	0.20	0.15	1	02/15/23 17:16	02/16/23 19:17	7440-09-7
Sodium	<b>20.8</b>	mg/L	1.0	0.58	1	02/15/23 17:16	02/16/23 19:17	7440-23-5
Calcium	<b>64.1</b>	mg/L	1.0	0.12	1	02/15/23 17:16	02/16/23 19:17	7440-70-2
Magnesium	<b>14.4</b>	mg/L	0.050	0.012	1	02/15/23 17:16	02/16/23 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	02/15/23 17:16	02/18/23 19:06	7440-36-0
Arsenic	ND	mg/L	0.0050	0.0022	1	02/15/23 17:16	02/18/23 19:06	7440-38-2
Barium	<b>0.013</b>	mg/L	0.0050	0.00067	1	02/15/23 17:16	02/18/23 19:06	7440-39-3
Beryllium	<b>0.0062</b>	mg/L	0.00050	0.000054	1	02/15/23 17:16	02/18/23 19:06	7440-41-7
Boron	<b>0.59</b>	mg/L	0.040	0.0086	1	02/15/23 17:16	02/18/23 19:06	7440-42-8
Cadmium	<b>0.0024</b>	mg/L	0.00050	0.00011	1	02/15/23 17:16	02/18/23 19:06	7440-43-9
Chromium	ND	mg/L	0.0050	0.0011	1	02/15/23 17:16	02/18/23 19:06	7440-47-3
Cobalt	<b>0.31</b>	mg/L	0.0050	0.00039	1	02/15/23 17:16	02/18/23 19:06	7440-48-4
Lead	ND	mg/L	0.0010	0.00089	1	02/15/23 17:16	02/18/23 19:06	7439-92-1
Lithium	<b>0.089</b>	mg/L	0.030	0.00073	1	02/15/23 17:16	02/18/23 19:06	7439-93-2
Molybdenum	ND	mg/L	0.010	0.00074	1	02/15/23 17:16	02/18/23 19:06	7439-98-7
Selenium	ND	mg/L	0.0050	0.0014	1	02/15/23 17:16	02/18/23 19:06	7782-49-2
Thallium	ND	mg/L	0.0010	0.00018	1	02/15/23 17:16	02/18/23 19:06	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	02/21/23 10:45	02/21/23 14:54	7439-97-6
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**2540C Total Dissolved Solids**

Analytical Method: SM 2540C-2015  
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	<b>527</b>	mg/L	25.0	25.0	1		02/08/23 18:54	
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**2320B Alkalinity**

Analytical Method: SM 2320B-2011  
Pace Analytical Services - Asheville

Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/08/23 17:05	
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/08/23 17:05	
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		02/08/23 17:05	

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### ANALYTICAL RESULTS

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

Sample: MCD-DGWC-48 Lab ID: 92650181009 Collected: 02/03/23 09:50 Received: 02/03/23 16:23 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	8.2	mg/L	1.0	0.60	1		02/07/23 20:58	16887-00-6	
Fluoride	0.48	mg/L	0.10	0.050	1		02/07/23 20:58	16984-48-8	
Sulfate	301	mg/L	6.0	3.0	6		02/08/23 14:35	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

Sample: MCD-AP234-EB-3 Lab ID: 92650181010 Collected: 02/03/23 13:15 Received: 02/03/23 16:23 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	11.1	mg/L	0.040	0.025	1	02/15/23 17:16	02/16/23 19:21	7439-89-6	
Potassium	2.3	mg/L	0.20	0.15	1	02/15/23 17:16	02/16/23 19:21	7440-09-7	
Sodium	11.8	mg/L	1.0	0.58	1	02/15/23 17:16	02/16/23 19:21	7440-23-5	
Calcium	75.7	mg/L	1.0	0.12	1	02/15/23 17:16	02/16/23 19:21	7440-70-2	
Magnesium	18.4	mg/L	0.050	0.012	1	02/15/23 17:16	02/16/23 19:21	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/15/23 17:16	02/18/23 19:12	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/15/23 17:16	02/18/23 19:12	7440-38-2	
Barium	0.096	mg/L	0.0050	0.00067	1	02/15/23 17:16	02/18/23 19:12	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/15/23 17:16	02/18/23 19:12	7440-41-7	
Boron	2.2	mg/L	0.040	0.0086	1	02/15/23 17:16	02/18/23 19:12	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/15/23 17:16	02/18/23 19:12	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/15/23 17:16	02/18/23 19:12	7440-47-3	
Cobalt	0.0057	mg/L	0.0050	0.00039	1	02/15/23 17:16	02/18/23 19:12	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/15/23 17:16	02/18/23 19:12	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/15/23 17:16	02/18/23 19:12	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/15/23 17:16	02/18/23 19:12	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/15/23 17:16	02/18/23 19:12	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/15/23 17:16	02/18/23 19:12	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/21/23 10:45	02/21/23 14:57	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		02/08/23 18:54		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/08/23 17:07		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/08/23 17:07		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		02/08/23 17:07		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		02/07/23 21:13	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/07/23 21:13	16984-48-8	
Sulfate	0.59J	mg/L	1.0	0.50	1		02/07/23 21:13	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

Sample: MCD-AP234-EB-2 Lab ID: 92650181011 Collected: 02/02/23 15:05 Received: 02/03/23 16:23 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	ND	mg/L	0.040	0.025	1	02/15/23 17:16	02/16/23 19:36	7439-89-6	
Potassium	ND	mg/L	0.20	0.15	1	02/15/23 17:16	02/16/23 19:36	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	02/15/23 17:16	02/16/23 19:36	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	02/15/23 17:16	02/16/23 19:36	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	02/15/23 17:16	02/16/23 19:36	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/15/23 17:16	02/18/23 19:18	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/15/23 17:16	02/18/23 19:18	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	02/15/23 17:16	02/18/23 19:18	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/15/23 17:16	02/18/23 19:18	7440-41-7	
Boron	0.021J	mg/L	0.040	0.0086	1	02/15/23 17:16	02/18/23 19:18	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/15/23 17:16	02/18/23 19:18	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/15/23 17:16	02/18/23 19:18	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/15/23 17:16	02/18/23 19:18	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/15/23 17:16	02/18/23 19:18	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/15/23 17:16	02/18/23 19:18	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/15/23 17:16	02/18/23 19:18	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/15/23 17:16	02/18/23 19:18	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/15/23 17:16	02/18/23 19:18	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/21/23 10:45	02/21/23 15:00	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		02/07/23 13:13		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/08/23 14:58		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/08/23 14:58		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		02/08/23 14:58		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		02/07/23 21:28	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/07/23 21:28	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/07/23 21:28	14808-79-8	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

Sample: MCD-DGWC-9		Lab ID: 92650181012		Collected: 02/03/23 11:50		Received: 02/03/23 16:23		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Monitoring Well Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Client</b>				1		02/14/23 11:43		
Collected Date	<b>02/03/23</b>				1		02/14/23 11:43		
Collected Time	<b>11:55</b>				1		02/14/23 11:43		
pH	<b>4.02</b>	Std. Units			1		02/14/23 11:43		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	<b>0.074</b>	mg/L	0.040	0.025	1	02/15/23 17:16	02/16/23 19:41	7439-89-6	
Potassium	<b>4.6</b>	mg/L	0.20	0.15	1	02/15/23 17:16	02/16/23 19:41	7440-09-7	
Sodium	<b>28.2</b>	mg/L	1.0	0.58	1	02/15/23 17:16	02/16/23 19:41	7440-23-5	
Calcium	<b>43.8</b>	mg/L	1.0	0.12	1	02/15/23 17:16	02/16/23 19:41	7440-70-2	
Magnesium	<b>4.7</b>	mg/L	0.050	0.012	1	02/15/23 17:16	02/16/23 19:41	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/15/23 17:16	02/18/23 19:24	7440-36-0	
Arsenic	<b>0.014</b>	mg/L	0.0050	0.0022	1	02/15/23 17:16	02/18/23 19:24	7440-38-2	
Barium	<b>0.019</b>	mg/L	0.0050	0.00067	1	02/15/23 17:16	02/18/23 19:24	7440-39-3	
Beryllium	<b>0.0046</b>	mg/L	0.00050	0.000054	1	02/15/23 17:16	02/18/23 19:24	7440-41-7	
Boron	<b>0.61</b>	mg/L	0.040	0.0086	1	02/15/23 17:16	02/18/23 19:24	7440-42-8	
Cadmium	<b>0.00053</b>	mg/L	0.00050	0.00011	1	02/15/23 17:16	02/18/23 19:24	7440-43-9	
Chromium	<b>0.0013J</b>	mg/L	0.0050	0.0011	1	02/15/23 17:16	02/18/23 19:24	7440-47-3	
Cobalt	<b>0.21</b>	mg/L	0.0050	0.00039	1	02/15/23 17:16	02/18/23 19:24	7440-48-4	
Lead	ND	mg/L	0.0050	0.0044	5	02/15/23 17:16	02/20/23 13:28	7439-92-1	D3
Lithium	<b>0.025J</b>	mg/L	0.030	0.00073	1	02/15/23 17:16	02/18/23 19:24	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/15/23 17:16	02/18/23 19:24	7439-98-7	
Selenium	<b>0.031</b>	mg/L	0.0050	0.0014	1	02/15/23 17:16	02/18/23 19:24	7782-49-2	
Thallium	ND	mg/L	0.0050	0.00090	5	02/15/23 17:16	02/20/23 13:28	7440-28-0	D3
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	<b>0.00017J</b>	mg/L	0.00020	0.00013	1	02/21/23 10:45	02/21/23 15:02	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>437</b>	mg/L	25.0	25.0	1		02/08/23 18:54		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/08/23 17:23		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/08/23 17:23		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		02/08/23 17:23		M1

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### ANALYTICAL RESULTS

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

Sample: MCD-DGWC-9 Lab ID: 92650181012 Collected: 02/03/23 11:50 Received: 02/03/23 16:23 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	14.7	mg/L	1.0	0.60	1		02/07/23 21:43	16887-00-6	
Fluoride	0.90	mg/L	0.10	0.050	1		02/07/23 21:43	16984-48-8	
Sulfate	277	mg/L	6.0	3.0	6		02/08/23 14:50	14808-79-8	

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## ANALYTICAL RESULTS

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

Sample: MCD-AP234-FD-2 Lab ID: 92650181013 Collected: 02/03/23 00:00 Received: 02/03/23 16:23 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>Monitoring Well Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Client</b>				1		02/14/23 11:44		
Collected Date	<b>2/3/23</b>				1		02/14/23 11:44		
Collected Time	<b>10:15</b>				1		02/14/23 11:44		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	<b>3.5</b>	mg/L	0.040	0.025	1	02/15/23 17:16	02/16/23 19:45	7439-89-6	
Potassium	<b>13.0</b>	mg/L	0.20	0.15	1	02/15/23 17:16	02/16/23 19:45	7440-09-7	
Sodium	<b>20.3</b>	mg/L	1.0	0.58	1	02/15/23 17:16	02/16/23 19:45	7440-23-5	
Calcium	<b>62.2</b>	mg/L	1.0	0.12	1	02/15/23 17:16	02/16/23 19:45	7440-70-2	
Magnesium	<b>14.1</b>	mg/L	0.050	0.012	1	02/15/23 17:16	02/16/23 19:45	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/15/23 17:16	02/18/23 19:30	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/15/23 17:16	02/18/23 19:30	7440-38-2	
Barium	<b>0.014</b>	mg/L	0.0050	0.00067	1	02/15/23 17:16	02/18/23 19:30	7440-39-3	
Beryllium	<b>0.0063</b>	mg/L	0.00050	0.000054	1	02/15/23 17:16	02/18/23 19:30	7440-41-7	
Boron	<b>0.58</b>	mg/L	0.040	0.0086	1	02/15/23 17:16	02/18/23 19:30	7440-42-8	
Cadmium	<b>0.0025</b>	mg/L	0.00050	0.00011	1	02/15/23 17:16	02/18/23 19:30	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/15/23 17:16	02/18/23 19:30	7440-47-3	
Cobalt	<b>0.32</b>	mg/L	0.0050	0.00039	1	02/15/23 17:16	02/18/23 19:30	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/15/23 17:16	02/18/23 19:30	7439-92-1	
Lithium	<b>0.091</b>	mg/L	0.030	0.00073	1	02/15/23 17:16	02/18/23 19:30	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/15/23 17:16	02/18/23 19:30	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/15/23 17:16	02/18/23 19:30	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/15/23 17:16	02/18/23 19:30	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/21/23 10:45	02/21/23 15:05	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>525</b>	mg/L	25.0	25.0	1		02/08/23 18:54		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/09/23 14:58		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/09/23 14:58		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		02/09/23 14:58		

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### ANALYTICAL RESULTS

Project: Plant McD AP 2-3/4 DetectionWe  
 Pace Project No.: 92650181

Sample: **MCD-AP234-FD-2** Lab ID: **92650181013** Collected: 02/03/23 00:00 Received: 02/03/23 16:23 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>8.3</b>	mg/L	1.0	0.60	1		02/08/23 00:55	16887-00-6	
Fluoride	<b>0.45</b>	mg/L	0.10	0.050	1		02/08/23 00:55	16984-48-8	
Sulfate	<b>303</b>	mg/L	6.0	3.0	6		02/08/23 15:04	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

Sample: MCD-DGWC-2 Lab ID: 92650181014 Collected: 02/06/23 09:55 Received: 02/07/23 11:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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#### Monitoring Well Data

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	Client				1		02/14/23 11:53		
Collected Date	02/06/23				1		02/14/23 11:53		
Collected Time	10:00				1		02/14/23 11:53		
pH	5.17	Std. Units			1		02/14/23 11:53		

#### 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	02/15/23 17:16	02/16/23 19:51	7439-89-6	
Potassium	4.8	mg/L	0.20	0.15	1	02/15/23 17:16	02/16/23 19:51	7440-09-7	
Sodium	8.9	mg/L	1.0	0.58	1	02/15/23 17:16	02/16/23 19:51	7440-23-5	
Calcium	35.3	mg/L	1.0	0.12	1	02/15/23 17:16	02/16/23 19:51	7440-70-2	
Magnesium	7.2	mg/L	0.050	0.012	1	02/15/23 17:16	02/16/23 19:51	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	02/15/23 17:16	02/18/23 19:35	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/15/23 17:16	02/18/23 19:35	7440-38-2	
Barium	0.020	mg/L	0.0050	0.00067	1	02/15/23 17:16	02/18/23 19:35	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/15/23 17:16	02/18/23 19:35	7440-41-7	
Boron	0.38	mg/L	0.040	0.0086	1	02/15/23 17:16	02/18/23 19:35	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/15/23 17:16	02/18/23 19:35	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/15/23 17:16	02/18/23 19:35	7440-47-3	
Cobalt	0.0024J	mg/L	0.0050	0.00039	1	02/15/23 17:16	02/18/23 19:35	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/15/23 17:16	02/18/23 19:35	7439-92-1	
Lithium	0.017J	mg/L	0.030	0.00073	1	02/15/23 17:16	02/18/23 19:35	7439-93-2	
Molybdenum	0.0021J	mg/L	0.010	0.00074	1	02/15/23 17:16	02/18/23 19:35	7439-98-7	
Selenium	0.0014J	mg/L	0.0050	0.0014	1	02/15/23 17:16	02/18/23 19:35	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/15/23 17:16	02/18/23 19:35	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	02/21/23 10:45	02/21/23 15:08	7439-97-6	
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#### 2540C Total Dissolved Solids

Analytical Method: SM 2540C-2015  
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	226	mg/L	25.0	25.0	1		02/08/23 18:56		
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#### 2320B Alkalinity

Analytical Method: SM 2320B-2011  
Pace Analytical Services - Asheville

Alkalinity,Bicarbonate (CaCO3)	46.5	mg/L	5.0	5.0	1		02/09/23 19:43		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/09/23 19:43		
Alkalinity, Total as CaCO3	46.5	mg/L	5.0	5.0	1		02/09/23 19:43		

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### ANALYTICAL RESULTS

Project: Plant McD AP 2-3/4 DetectionWe  
 Pace Project No.: 92650181

Sample: MCD-DGWC-2		Lab ID: 92650181014		Collected: 02/06/23 09:55		Received: 02/07/23 11:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	<b>2.1</b>	mg/L	1.0	0.60	1		02/08/23 16:12	16887-00-6	
Fluoride	<b>0.072J</b>	mg/L	0.10	0.050	1		02/08/23 16:12	16984-48-8	
Sulfate	<b>96.4</b>	mg/L	2.0	1.0	2		02/09/23 03:54	14808-79-8	

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## ANALYTICAL RESULTS

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: MCD-DGWC-11</b>									
<b>Lab ID: 92650181015</b>									
Collected: 02/06/23 16:31									
Received: 02/07/23 11:10									
Matrix: Water									
<b>Monitoring Well Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Client</b>				1		02/14/23 11:55		
Collected Date	<b>02/06/23</b>				1		02/14/23 11:55		
Collected Time	<b>16:36</b>				1		02/14/23 11:55		
pH	<b>5.45</b>	Std. Units			1		02/14/23 11:55		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	<b>0.059</b>	mg/L	0.040	0.025	1	02/15/23 17:16	02/16/23 19:56	7439-89-6	
Potassium	<b>3.9</b>	mg/L	0.20	0.15	1	02/15/23 17:16	02/16/23 19:56	7440-09-7	
Sodium	<b>20.6</b>	mg/L	1.0	0.58	1	02/15/23 17:16	02/16/23 19:56	7440-23-5	
Calcium	<b>58.8</b>	mg/L	1.0	0.12	1	02/15/23 17:16	02/16/23 19:56	7440-70-2	
Magnesium	<b>28.6</b>	mg/L	0.050	0.012	1	02/15/23 17:16	02/16/23 19:56	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/15/23 17:16	02/18/23 19:41	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/15/23 17:16	02/18/23 19:41	7440-38-2	
Barium	<b>0.039</b>	mg/L	0.0050	0.00067	1	02/15/23 17:16	02/18/23 19:41	7440-39-3	
Beryllium	<b>0.00019J</b>	mg/L	0.00050	0.000054	1	02/15/23 17:16	02/18/23 19:41	7440-41-7	
Boron	<b>1.6</b>	mg/L	0.040	0.0086	1	02/15/23 17:16	02/18/23 19:41	7440-42-8	
Cadmium	<b>0.00015J</b>	mg/L	0.00050	0.00011	1	02/15/23 17:16	02/18/23 19:41	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/15/23 17:16	02/18/23 19:41	7440-47-3	
Cobalt	<b>0.0013J</b>	mg/L	0.0050	0.00039	1	02/15/23 17:16	02/18/23 19:41	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/15/23 17:16	02/18/23 19:41	7439-92-1	
Lithium	<b>0.0018J</b>	mg/L	0.030	0.00073	1	02/15/23 17:16	02/18/23 19:41	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/15/23 17:16	02/18/23 19:41	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/15/23 17:16	02/18/23 19:41	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/15/23 17:16	02/18/23 19:41	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/21/23 10:45	02/21/23 15:15	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>481</b>	mg/L	25.0	25.0	1		02/08/23 18:56		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	<b>14.0</b>	mg/L	5.0	5.0	1		02/08/23 18:06		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/08/23 18:06		
Alkalinity, Total as CaCO3	<b>14.0</b>	mg/L	5.0	5.0	1		02/08/23 18:06		

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### ANALYTICAL RESULTS

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

Sample: MCD-DGWC-11 Lab ID: 92650181015 Collected: 02/06/23 16:31 Received: 02/07/23 11:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	12.1	mg/L	1.0	0.60	1		02/08/23 16:26	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/08/23 16:26	16984-48-8	
Sulfate	273	mg/L	6.0	3.0	6		02/09/23 04:08	14808-79-8	

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## ANALYTICAL RESULTS

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

Sample: MCD-DGWC-12		Lab ID: 92650181016		Collected: 02/06/23 13:45		Received: 02/07/23 11:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Monitoring Well Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Client</b>				1		02/14/23 11:58		
Collected Date	<b>02/06/23</b>				1		02/14/23 11:58		
Collected Time	<b>13:50</b>				1		02/14/23 11:58		
pH	<b>5.90</b>	Std. Units			1		02/14/23 11:58		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	<b>23.9</b>	mg/L	0.040	0.025	1	02/15/23 17:16	02/16/23 20:00	7439-89-6	
Potassium	<b>7.4</b>	mg/L	0.20	0.15	1	02/15/23 17:16	02/16/23 20:00	7440-09-7	
Sodium	<b>9.9</b>	mg/L	1.0	0.58	1	02/15/23 17:16	02/16/23 20:00	7440-23-5	
Calcium	<b>28.3</b>	mg/L	1.0	0.12	1	02/15/23 17:16	02/16/23 20:00	7440-70-2	
Magnesium	<b>17.0</b>	mg/L	0.050	0.012	1	02/15/23 17:16	02/16/23 20:00	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/15/23 17:16	02/18/23 19:59	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/15/23 17:16	02/18/23 19:59	7440-38-2	
Barium	<b>0.047</b>	mg/L	0.0050	0.00067	1	02/15/23 17:16	02/18/23 19:59	7440-39-3	
Beryllium	<b>0.00082J</b>	mg/L	0.00050	0.000054	1	02/15/23 17:16	02/18/23 19:59	7440-41-7	
Boron	<b>0.51</b>	mg/L	0.040	0.0086	1	02/15/23 17:16	02/18/23 19:59	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/15/23 17:16	02/18/23 19:59	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/15/23 17:16	02/18/23 19:59	7440-47-3	
Cobalt	<b>0.016</b>	mg/L	0.0050	0.00039	1	02/15/23 17:16	02/18/23 19:59	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/15/23 17:16	02/18/23 19:59	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/15/23 17:16	02/18/23 19:59	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/15/23 17:16	02/18/23 19:59	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/15/23 17:16	02/18/23 19:59	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/15/23 17:16	02/18/23 19:59	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/21/23 10:45	02/21/23 15:18	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>251</b>	mg/L	25.0	25.0	1		02/10/23 14:15		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	<b>59.0</b>	mg/L	5.0	5.0	1		02/08/23 18:11		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/08/23 18:11		
Alkalinity, Total as CaCO3	<b>59.0</b>	mg/L	5.0	5.0	1		02/08/23 18:11		

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**ANALYTICAL RESULTS**

Project: Plant McD AP 2-3/4 DetectionWe  
 Pace Project No.: 92650181

**Sample: MCD-DGWC-12**      **Lab ID: 92650181016**      Collected: 02/06/23 13:45      Received: 02/07/23 11:10      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>6.8</b>	mg/L	1.0	0.60	1		02/08/23 16:40	16887-00-6	
Fluoride	<b>0.10</b>	mg/L	0.10	0.050	1		02/08/23 16:40	16984-48-8	
Sulfate	<b>142</b>	mg/L	3.0	1.5	3		02/09/23 04:22	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

**Sample: MCD-DGWC-17**      **Lab ID: 92650181017**      Collected: 02/06/23 10:50      Received: 02/07/23 11:10      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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**Monitoring Well Data**

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>Client</b>				1		02/14/23 11:59		
Collected Date	<b>02/06/23</b>				1		02/14/23 11:59		
Collected Time	<b>10:55</b>				1		02/14/23 11:59		
pH	<b>5.13</b>	Std. Units			1		02/14/23 11:59		

**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	02/15/23 17:16	02/16/23 20:05	7439-89-6	
Potassium	<b>3.5</b>	mg/L	0.20	0.15	1	02/15/23 17:16	02/16/23 20:05	7440-09-7	
Sodium	<b>17.3</b>	mg/L	1.0	0.58	1	02/15/23 17:16	02/16/23 20:05	7440-23-5	
Calcium	<b>17.5</b>	mg/L	1.0	0.12	1	02/15/23 17:16	02/16/23 20:05	7440-70-2	
Magnesium	<b>51.0</b>	mg/L	0.050	0.012	1	02/15/23 17:16	02/16/23 20:05	7439-95-4	

**6020 MET ICPMS**

Analytical Method: EPA 6020B      Preparation Method: EPA 3005A  
Pace Analytical Services - Peachtree Corners, GA

Antimony	ND	mg/L	0.0030	0.00078	1	02/15/23 17:16	02/18/23 20:05	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/15/23 17:16	02/18/23 20:05	7440-38-2	
Barium	<b>0.029</b>	mg/L	0.0050	0.00067	1	02/15/23 17:16	02/18/23 20:05	7440-39-3	
Beryllium	<b>0.00051</b>	mg/L	0.00050	0.000054	1	02/15/23 17:16	02/18/23 20:05	7440-41-7	
Boron	<b>0.83</b>	mg/L	0.040	0.0086	1	02/15/23 17:16	02/18/23 20:05	7440-42-8	
Cadmium	<b>0.00028J</b>	mg/L	0.00050	0.00011	1	02/15/23 17:16	02/18/23 20:05	7440-43-9	
Chromium	<b>0.0026J</b>	mg/L	0.0050	0.0011	1	02/15/23 17:16	02/18/23 20:05	7440-47-3	
Cobalt	<b>0.017</b>	mg/L	0.0050	0.00039	1	02/15/23 17:16	02/18/23 20:05	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/15/23 17:16	02/18/23 20:05	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/15/23 17:16	02/18/23 20:05	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/15/23 17:16	02/18/23 20:05	7439-98-7	
Selenium	<b>0.0057</b>	mg/L	0.0050	0.0014	1	02/15/23 17:16	02/18/23 20:05	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/15/23 17:16	02/18/23 20:05	7440-28-0	

**7470 Mercury**

Analytical Method: EPA 7470A      Preparation Method: EPA 7470A  
Pace Analytical Services - Peachtree Corners, GA

Mercury	<b>0.00014J</b>	mg/L	0.00020	0.00013	1	02/21/23 10:45	02/21/23 15:21	7439-97-6	
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**2540C Total Dissolved Solids**

Analytical Method: SM 2540C-2015  
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	<b>403</b>	mg/L	25.0	25.0	1		02/10/23 14:15		
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**2320B Alkalinity**

Analytical Method: SM 2320B-2011  
Pace Analytical Services - Asheville

Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/08/23 18:19		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/08/23 18:19		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		02/08/23 18:19		

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### ANALYTICAL RESULTS

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

Sample: MCD-DGWC-17 Lab ID: 92650181017 Collected: 02/06/23 10:50 Received: 02/07/23 11:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	18.8	mg/L	1.0	0.60	1		02/08/23 16:54	16887-00-6	
Fluoride	0.096J	mg/L	0.10	0.050	1		02/08/23 16:54	16984-48-8	
Sulfate	262	mg/L	6.0	3.0	6		02/09/23 04:36	14808-79-8	M1

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### ANALYTICAL RESULTS

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

**Sample: MCD-DGWC-19**      **Lab ID: 92650181018**      Collected: 02/06/23 12:50      Received: 02/07/23 11:10      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				

**Monitoring Well Data**

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>Client</b>				1	02/14/23 12:00			
Collected Date	<b>02/06/23</b>				1	02/14/23 12:00			
Collected Time	<b>12:55</b>				1	02/14/23 12:00			
pH	<b>4.82</b>	Std. Units			1	02/14/23 12:00			

**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	02/15/23 17:16	02/16/23 20:10	7439-89-6
Potassium	<b>3.7</b>	mg/L	0.20	0.15	1	02/15/23 17:16	02/16/23 20:10	7440-09-7
Sodium	<b>37.8</b>	mg/L	1.0	0.58	1	02/15/23 17:16	02/16/23 20:10	7440-23-5
Calcium	<b>105</b>	mg/L	1.0	0.12	1	02/15/23 17:16	02/16/23 20:10	7440-70-2
Magnesium	<b>12.0</b>	mg/L	0.050	0.012	1	02/15/23 17:16	02/16/23 20:10	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	02/15/23 17:16	02/18/23 20:11	7440-36-0
Arsenic	ND	mg/L	0.0050	0.0022	1	02/15/23 17:16	02/18/23 20:11	7440-38-2
Barium	<b>0.025</b>	mg/L	0.0050	0.00067	1	02/15/23 17:16	02/18/23 20:11	7440-39-3
Beryllium	<b>0.0017</b>	mg/L	0.00050	0.000054	1	02/15/23 17:16	02/18/23 20:11	7440-41-7
Boron	<b>2.2</b>	mg/L	0.040	0.0086	1	02/15/23 17:16	02/18/23 20:11	7440-42-8
Cadmium	<b>0.00029J</b>	mg/L	0.00050	0.00011	1	02/15/23 17:16	02/18/23 20:11	7440-43-9
Chromium	<b>0.0022J</b>	mg/L	0.0050	0.0011	1	02/15/23 17:16	02/18/23 20:11	7440-47-3
Cobalt	<b>0.055</b>	mg/L	0.0050	0.00039	1	02/15/23 17:16	02/18/23 20:11	7440-48-4
Lead	ND	mg/L	0.0010	0.00089	1	02/15/23 17:16	02/18/23 20:11	7439-92-1
Lithium	<b>0.0026J</b>	mg/L	0.030	0.00073	1	02/15/23 17:16	02/18/23 20:11	7439-93-2
Molybdenum	ND	mg/L	0.010	0.00074	1	02/15/23 17:16	02/18/23 20:11	7439-98-7
Selenium	<b>0.0042J</b>	mg/L	0.0050	0.0014	1	02/15/23 17:16	02/18/23 20:11	7782-49-2
Thallium	<b>0.00059J</b>	mg/L	0.0010	0.00018	1	02/15/23 17:16	02/18/23 20:11	7440-28-0

**7470 Mercury**

Analytical Method: EPA 7470A      Preparation Method: EPA 7470A  
Pace Analytical Services - Peachtree Corners, GA

Mercury	<b>0.00013J</b>	mg/L	0.00020	0.00013	1	02/21/23 10:45	02/21/23 15:23	7439-97-6
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**2540C Total Dissolved Solids**

Analytical Method: SM 2540C-2015  
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	<b>600</b>	mg/L	25.0	25.0	1		02/10/23 14:15	
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**2320B Alkalinity**

Analytical Method: SM 2320B-2011  
Pace Analytical Services - Asheville

Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/08/23 18:24	
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/08/23 18:24	
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		02/08/23 18:24	

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**ANALYTICAL RESULTS**

Project: Plant McD AP 2-3/4 DetectionWe  
 Pace Project No.: 92650181

**Sample: MCD-DGWC-19**      **Lab ID: 92650181018**      Collected: 02/06/23 12:50      Received: 02/07/23 11:10      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>17.9</b>	mg/L	1.0	0.60	1		02/08/23 17:37	16887-00-6	
Fluoride	<b>0.22</b>	mg/L	0.10	0.050	1		02/08/23 17:37	16984-48-8	
Sulfate	<b>379</b>	mg/L	8.0	4.0	8		02/09/23 05:18	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

**Sample: MCD-DGWC-22**      **Lab ID: 92650181019**      Collected: 02/06/23 15:10      Received: 02/07/23 11:10      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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**Monitoring Well Data**

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>Client</b>				1		02/14/23 12:02		
Collected Date	<b>02/06/23</b>				1		02/14/23 12:02		
Collected Time	<b>15:15</b>				1		02/14/23 12:02		
pH	<b>5.84</b>	Std. Units			1		02/14/23 12:02		

**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	02/15/23 17:16	02/16/23 20:15	7439-89-6	
Potassium	<b>5.9</b>	mg/L	0.20	0.15	1	02/15/23 17:16	02/16/23 20:15	7440-09-7	
Sodium	<b>25.4</b>	mg/L	1.0	0.58	1	02/15/23 17:16	02/16/23 20:15	7440-23-5	
Calcium	<b>56.7</b>	mg/L	1.0	0.12	1	02/15/23 17:16	02/16/23 20:15	7440-70-2	
Magnesium	<b>19.9</b>	mg/L	0.050	0.012	1	02/15/23 17:16	02/16/23 20:15	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	02/15/23 17:16	02/18/23 20:17	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/15/23 17:16	02/18/23 20:17	7440-38-2	
Barium	<b>0.027</b>	mg/L	0.0050	0.00067	1	02/15/23 17:16	02/18/23 20:17	7440-39-3	
Beryllium	<b>0.00010J</b>	mg/L	0.00050	0.000054	1	02/15/23 17:16	02/18/23 20:17	7440-41-7	
Boron	<b>3.8</b>	mg/L	0.040	0.0086	1	02/15/23 17:16	02/18/23 20:17	7440-42-8	
Cadmium	<b>0.00045J</b>	mg/L	0.00050	0.00011	1	02/15/23 17:16	02/18/23 20:17	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/15/23 17:16	02/18/23 20:17	7440-47-3	
Cobalt	<b>0.0058</b>	mg/L	0.0050	0.00039	1	02/15/23 17:16	02/18/23 20:17	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/15/23 17:16	02/18/23 20:17	7439-92-1	
Lithium	<b>0.0034J</b>	mg/L	0.030	0.00073	1	02/15/23 17:16	02/18/23 20:17	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/15/23 17:16	02/18/23 20:17	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/15/23 17:16	02/18/23 20:17	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/15/23 17:16	02/18/23 20:17	7440-28-0	

**7470 Mercury**

Analytical Method: EPA 7470A      Preparation Method: EPA 7470A  
Pace Analytical Services - Peachtree Corners, GA

Mercury	<b>0.00014J</b>	mg/L	0.00020	0.00013	1	02/21/23 10:45	02/21/23 15:26	7439-97-6	
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**2540C Total Dissolved Solids**

Analytical Method: SM 2540C-2015  
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	<b>427</b>	mg/L	25.0	25.0	1		02/10/23 14:16		
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**2320B Alkalinity**

Analytical Method: SM 2320B-2011  
Pace Analytical Services - Asheville

Alkalinity,Bicarbonate (CaCO3)	<b>27.3</b>	mg/L	5.0	5.0	1		02/08/23 18:29		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/08/23 18:29		
Alkalinity, Total as CaCO3	<b>27.3</b>	mg/L	5.0	5.0	1		02/08/23 18:29		

### REPORT OF LABORATORY ANALYSIS

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**ANALYTICAL RESULTS**

Project: Plant McD AP 2-3/4 DetectionWe  
 Pace Project No.: 92650181

**Sample: MCD-DGWC-22**      **Lab ID: 92650181019**      Collected: 02/06/23 15:10      Received: 02/07/23 11:10      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>16.9</b>	mg/L	1.0	0.60	1		02/08/23 17:52	16887-00-6	
Fluoride	<b>0.057J</b>	mg/L	0.10	0.050	1		02/08/23 17:52	16984-48-8	
Sulfate	<b>235</b>	mg/L	5.0	2.5	5		02/09/23 05:32	14808-79-8	

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## ANALYTICAL RESULTS

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

Sample: MCD-DGWC-23		Lab ID: 92650181020		Collected: 02/06/23 14:10		Received: 02/07/23 11:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Monitoring Well Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Client</b>				1		02/14/23 12:02		
Collected Date	<b>02/06/23</b>				1		02/14/23 12:02		
Collected Time	<b>14:15</b>				1		02/14/23 12:02		
pH	<b>5.97</b>	Std. Units			1		02/14/23 12:02		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	ND	mg/L	0.040	0.025	1	02/15/23 17:16	02/16/23 20:20	7439-89-6	
Potassium	<b>6.5</b>	mg/L	0.20	0.15	1	02/15/23 17:16	02/16/23 20:20	7440-09-7	
Sodium	<b>22.4</b>	mg/L	1.0	0.58	1	02/15/23 17:16	02/16/23 20:20	7440-23-5	
Calcium	<b>86.4</b>	mg/L	1.0	0.12	1	02/15/23 17:16	02/16/23 20:20	7440-70-2	
Magnesium	<b>20.4</b>	mg/L	0.050	0.012	1	02/15/23 17:16	02/16/23 20:20	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/15/23 17:16	02/18/23 20:23	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/15/23 17:16	02/18/23 20:23	7440-38-2	
Barium	<b>0.023</b>	mg/L	0.0050	0.00067	1	02/15/23 17:16	02/18/23 20:23	7440-39-3	
Beryllium	<b>0.00038J</b>	mg/L	0.00050	0.000054	1	02/15/23 17:16	02/18/23 20:23	7440-41-7	
Boron	<b>4.4</b>	mg/L	0.040	0.0086	1	02/15/23 17:16	02/18/23 20:23	7440-42-8	
Cadmium	<b>0.00021J</b>	mg/L	0.00050	0.00011	1	02/15/23 17:16	02/18/23 20:23	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/15/23 17:16	02/18/23 20:23	7440-47-3	
Cobalt	<b>0.00064J</b>	mg/L	0.0050	0.00039	1	02/15/23 17:16	02/18/23 20:23	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/15/23 17:16	02/18/23 20:23	7439-92-1	
Lithium	<b>0.0022J</b>	mg/L	0.030	0.00073	1	02/15/23 17:16	02/18/23 20:23	7439-93-2	
Molybdenum	<b>0.0070J</b>	mg/L	0.010	0.00074	1	02/15/23 17:16	02/18/23 20:23	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/15/23 17:16	02/18/23 20:23	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/15/23 17:16	02/18/23 20:23	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/27/23 15:15	02/28/23 08:25	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>532</b>	mg/L	25.0	25.0	1		02/10/23 14:16		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	<b>77.5</b>	mg/L	5.0	5.0	1		02/08/23 18:35		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/08/23 18:35		
Alkalinity, Total as CaCO3	<b>77.5</b>	mg/L	5.0	5.0	1		02/08/23 18:35		

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### ANALYTICAL RESULTS

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

Sample: MCD-DGWC-23 Lab ID: 92650181020 Collected: 02/06/23 14:10 Received: 02/07/23 11:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	12.4	mg/L	1.0	0.60	1		02/08/23 18:06	16887-00-6	
Fluoride	0.076J	mg/L	0.10	0.050	1		02/08/23 18:06	16984-48-8	
Sulfate	262	mg/L	6.0	3.0	6		02/09/23 06:15	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

**Sample: MCD-AP234-EB-4**      **Lab ID: 92650181021**      Collected: 02/06/23 15:55      Received: 02/07/23 11:10      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	ND	mg/L	0.040	0.025	1	02/20/23 10:59	02/20/23 19:12	7439-89-6	
Potassium	ND	mg/L	0.20	0.15	1	02/20/23 10:59	02/20/23 19:12	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	02/20/23 10:59	02/20/23 19:12	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	02/20/23 10:59	02/20/23 19:12	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	02/20/23 10:59	02/20/23 19:12	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/16/23 13:08	02/17/23 14:03	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/16/23 13:08	02/17/23 14:03	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	02/16/23 13:08	02/17/23 14:03	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/16/23 13:08	02/17/23 14:03	7440-41-7	
Boron	<b>0.0097J</b>	mg/L	0.040	0.0086	1	02/16/23 13:08	02/17/23 14:03	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/16/23 13:08	02/17/23 14:03	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/16/23 13:08	02/17/23 14:03	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/16/23 13:08	02/17/23 14:03	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/16/23 13:08	02/17/23 14:03	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/16/23 13:08	02/17/23 14:03	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/16/23 13:08	02/17/23 14:03	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/16/23 13:08	02/17/23 14:03	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/16/23 13:08	02/17/23 14:03	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A    Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/27/23 15:15	02/28/23 08:28	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>89.0</b>	mg/L	25.0	25.0	1		02/10/23 14:16		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/08/23 18:44		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/08/23 18:44		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		02/08/23 18:44		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		02/08/23 18:49	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/08/23 18:49	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/08/23 18:49	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

**Sample: MCD-234-FD-3**      **Lab ID: 92650181022**      Collected: 02/06/23 00:00      Received: 02/07/23 11:10      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				

**Monitoring Well Data**

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>Client</b>				1	02/14/23 12:06			
Collected Date	<b>02/06/23</b>				1	02/14/23 12:06			
Collected Time	<b>14:15</b>				1	02/14/23 12:06			

**6010D ATL ICP**

Analytical Method: EPA 6010D      Preparation Method: EPA 3010A  
Pace Analytical Services - Peachtree Corners, GA

Iron	<b>23.7</b>	mg/L	0.040	0.025	1	02/20/23 10:59	02/20/23 19:16	7439-89-6	M1
Potassium	<b>7.1</b>	mg/L	0.20	0.15	1	02/20/23 10:59	02/20/23 19:16	7440-09-7	M1
Sodium	<b>9.8</b>	mg/L	1.0	0.58	1	02/20/23 10:59	02/20/23 19:16	7440-23-5	
Calcium	<b>28.3</b>	mg/L	1.0	0.12	1	02/20/23 10:59	02/20/23 19:16	7440-70-2	M1
Magnesium	<b>16.7</b>	mg/L	0.050	0.012	1	02/20/23 10:59	02/20/23 19:16	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	02/16/23 13:08	02/17/23 14:09	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/16/23 13:08	02/17/23 14:09	7440-38-2	
Barium	<b>0.053</b>	mg/L	0.0050	0.00067	1	02/16/23 13:08	02/17/23 14:09	7440-39-3	
Beryllium	<b>0.00097J</b>	mg/L	0.00050	0.000054	1	02/16/23 13:08	02/17/23 14:09	7440-41-7	
Boron	<b>0.58</b>	mg/L	0.040	0.0086	1	02/16/23 13:08	02/17/23 14:09	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/16/23 13:08	02/17/23 14:09	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/16/23 13:08	02/17/23 14:09	7440-47-3	
Cobalt	<b>0.018</b>	mg/L	0.0050	0.00039	1	02/16/23 13:08	02/17/23 14:09	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/16/23 13:08	02/17/23 14:09	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/16/23 13:08	02/17/23 14:09	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/16/23 13:08	02/17/23 14:09	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/16/23 13:08	02/17/23 14:09	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/16/23 13:08	02/17/23 14:09	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	02/27/23 15:15	02/28/23 08:44	7439-97-6	
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**2540C Total Dissolved Solids**

Analytical Method: SM 2540C-2015  
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	<b>269</b>	mg/L	25.0	25.0	1		02/10/23 14:16		
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**2320B Alkalinity**

Analytical Method: SM 2320B-2011  
Pace Analytical Services - Asheville

Alkalinity,Bicarbonate (CaCO3)	<b>56.9</b>	mg/L	5.0	5.0	1		02/08/23 18:57		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/08/23 18:57		
Alkalinity, Total as CaCO3	<b>56.9</b>	mg/L	5.0	5.0	1		02/08/23 18:57		

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### ANALYTICAL RESULTS

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

Sample: MCD-234-FD-3 Lab ID: 92650181022 Collected: 02/06/23 00:00 Received: 02/07/23 11:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	6.8	mg/L	1.0	0.60	1		02/08/23 19:03	16887-00-6	
Fluoride	0.10	mg/L	0.10	0.050	1		02/08/23 19:03	16984-48-8	
Sulfate	141	mg/L	3.0	1.5	3		02/09/23 06:29	14808-79-8	

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## ANALYTICAL RESULTS

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

Sample: MCD-234-FD-5 Lab ID: 92650181023 Collected: 02/06/23 00:00 Received: 02/07/23 11:10 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>Monitoring Well Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Client</b>				1		02/14/23 12:09		
Collected Date	<b>02/06/23</b>				1		02/14/23 12:09		
Collected Time	<b>14:25</b>				1		02/14/23 12:09		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	ND	mg/L	0.040	0.025	1	02/20/23 10:59	02/20/23 19:45	7439-89-6	
Potassium	<b>6.5</b>	mg/L	0.20	0.15	1	02/20/23 10:59	02/20/23 19:45	7440-09-7	
Sodium	<b>22.4</b>	mg/L	1.0	0.58	1	02/20/23 10:59	02/20/23 19:45	7440-23-5	
Calcium	<b>87.0</b>	mg/L	1.0	0.12	1	02/20/23 10:59	02/20/23 19:45	7440-70-2	
Magnesium	<b>20.2</b>	mg/L	0.050	0.012	1	02/20/23 10:59	02/20/23 19:45	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/16/23 13:08	02/17/23 14:14	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/16/23 13:08	02/17/23 14:14	7440-38-2	
Barium	<b>0.024</b>	mg/L	0.0050	0.00067	1	02/16/23 13:08	02/17/23 14:14	7440-39-3	
Beryllium	<b>0.00044J</b>	mg/L	0.00050	0.000054	1	02/16/23 13:08	02/17/23 14:14	7440-41-7	
Boron	<b>4.7</b>	mg/L	0.040	0.0086	1	02/16/23 13:08	02/17/23 14:14	7440-42-8	
Cadmium	<b>0.00022J</b>	mg/L	0.00050	0.00011	1	02/16/23 13:08	02/17/23 14:14	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/16/23 13:08	02/17/23 14:14	7440-47-3	
Cobalt	<b>0.00071J</b>	mg/L	0.0050	0.00039	1	02/16/23 13:08	02/17/23 14:14	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/16/23 13:08	02/17/23 14:14	7439-92-1	
Lithium	<b>0.0023J</b>	mg/L	0.030	0.00073	1	02/16/23 13:08	02/17/23 14:14	7439-93-2	
Molybdenum	<b>0.0072J</b>	mg/L	0.010	0.00074	1	02/16/23 13:08	02/17/23 14:14	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/16/23 13:08	02/17/23 14:14	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/16/23 13:08	02/17/23 14:14	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/27/23 15:15	02/28/23 08:46	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>507</b>	mg/L	25.0	25.0	1		02/10/23 14:16		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	<b>77.8</b>	mg/L	5.0	5.0	1		02/08/23 19:05		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/08/23 19:05		
Alkalinity, Total as CaCO3	<b>77.8</b>	mg/L	5.0	5.0	1		02/08/23 19:05		

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### ANALYTICAL RESULTS

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

Sample: MCD-234-FD-5 Lab ID: 92650181023 Collected: 02/06/23 00:00 Received: 02/07/23 11:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	12.4	mg/L	1.0	0.60	1		02/08/23 19:18	16887-00-6	
Fluoride	0.074J	mg/L	0.10	0.050	1		02/08/23 19:18	16984-48-8	
Sulfate	260	mg/L	6.0	3.0	6		02/09/23 06:43	14808-79-8	

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## ANALYTICAL RESULTS

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

Sample: MCD-AP234-FB-4 Lab ID: 92650181024 Collected: 02/06/23 09:50 Received: 02/07/23 11:10 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	ND	mg/L	0.040	0.025	1	02/20/23 10:59	02/20/23 19:50	7439-89-6	
Potassium	ND	mg/L	0.20	0.15	1	02/20/23 10:59	02/20/23 19:50	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	02/20/23 10:59	02/20/23 19:50	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	02/20/23 10:59	02/20/23 19:50	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	02/20/23 10:59	02/20/23 19:50	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/16/23 13:08	02/17/23 14:20	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/16/23 13:08	02/17/23 14:20	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	02/16/23 13:08	02/17/23 14:20	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/16/23 13:08	02/17/23 14:20	7440-41-7	
Boron	0.038J	mg/L	0.040	0.0086	1	02/16/23 13:08	02/17/23 14:20	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/16/23 13:08	02/17/23 14:20	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/16/23 13:08	02/17/23 14:20	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/16/23 13:08	02/17/23 14:20	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/16/23 13:08	02/17/23 14:20	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/16/23 13:08	02/17/23 14:20	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/16/23 13:08	02/17/23 14:20	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/16/23 13:08	02/17/23 14:20	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/16/23 13:08	02/17/23 14:20	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/27/23 15:15	02/28/23 08:49	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		02/10/23 14:16		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/08/23 19:14		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/08/23 19:14		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		02/08/23 19:14		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		02/08/23 19:32	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/08/23 19:32	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/08/23 19:32	14808-79-8	

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## ANALYTICAL RESULTS

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

Sample: MCD-DGWC-5		Lab ID: 92650181025		Collected: 02/07/23 10:00		Received: 02/08/23 13:48		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Monitoring Well Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Client</b>				1		02/14/23 16:26		
Collected Date	<b>02/07/23</b>				1		02/14/23 16:26		
Collected Time	<b>10:05</b>				1		02/14/23 16:26		
pH	<b>4.89</b>	Std. Units			1		02/14/23 16:26		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	<b>0.043</b>	mg/L	0.040	0.025	1	02/20/23 10:59	02/20/23 20:09	7439-89-6	
Potassium	<b>4.1</b>	mg/L	0.20	0.15	1	02/20/23 10:59	02/20/23 20:09	7440-09-7	
Sodium	<b>21.5</b>	mg/L	1.0	0.58	1	02/20/23 10:59	02/20/23 20:09	7440-23-5	
Calcium	<b>139</b>	mg/L	1.0	0.12	1	02/20/23 10:59	02/20/23 20:09	7440-70-2	
Magnesium	<b>24.7</b>	mg/L	0.050	0.012	1	02/20/23 10:59	02/20/23 20:09	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/16/23 13:08	02/17/23 14:26	7440-36-0	
Arsenic	<b>0.0036J</b>	mg/L	0.0050	0.0022	1	02/16/23 13:08	02/17/23 14:26	7440-38-2	
Barium	<b>0.019</b>	mg/L	0.0050	0.00067	1	02/16/23 13:08	02/17/23 14:26	7440-39-3	
Beryllium	<b>0.0083</b>	mg/L	0.00050	0.000054	1	02/16/23 13:08	02/17/23 14:26	7440-41-7	
Boron	<b>3.5</b>	mg/L	0.040	0.0086	1	02/16/23 13:08	02/17/23 14:26	7440-42-8	
Cadmium	<b>0.0012</b>	mg/L	0.00050	0.00011	1	02/16/23 13:08	02/17/23 14:26	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/16/23 13:08	02/17/23 14:26	7440-47-3	
Cobalt	<b>0.021</b>	mg/L	0.0050	0.00039	1	02/16/23 13:08	02/17/23 14:26	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/16/23 13:08	02/17/23 14:26	7439-92-1	
Lithium	<b>0.0072J</b>	mg/L	0.030	0.00073	1	02/16/23 13:08	02/17/23 14:26	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/16/23 13:08	02/17/23 14:26	7439-98-7	
Selenium	<b>0.0082</b>	mg/L	0.0050	0.0014	1	02/16/23 13:08	02/17/23 14:26	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/16/23 13:08	02/17/23 14:26	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	<b>0.00026</b>	mg/L	0.00020	0.00013	1	02/27/23 15:15	02/28/23 08:52	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>939</b>	mg/L	25.0	25.0	1		02/13/23 11:04		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/16/23 10:24		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/16/23 10:24		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		02/16/23 10:24		

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**ANALYTICAL RESULTS**

Project: Plant McD AP 2-3/4 DetectionWe  
 Pace Project No.: 92650181

**Sample: MCD-DGWC-5**      **Lab ID: 92650181025**      Collected: 02/07/23 10:00      Received: 02/08/23 13:48      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>10.0</b>	mg/L	1.0	0.60	1		02/10/23 14:49	16887-00-6	
Fluoride	<b>0.22</b>	mg/L	0.10	0.050	1		02/10/23 14:49	16984-48-8	
Sulfate	<b>577</b>	mg/L	12.0	6.0	12		02/11/23 07:21	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

**Sample: MCD-DGWC-8**      **Lab ID: 92650181026**      Collected: 02/07/23 12:00      Received: 02/08/23 13:48      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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**Monitoring Well Data**

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>Client</b>				1		02/14/23 16:27		
Collected Date	<b>02/07/23</b>				1		02/14/23 16:27		
Collected Time	<b>12:05</b>				1		02/14/23 16:27		
pH	<b>5.23</b>	Std. Units			1		02/14/23 16:27		

**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	02/20/23 10:59	02/20/23 20:14	7439-89-6	
Potassium	<b>3.3</b>	mg/L	0.20	0.15	1	02/20/23 10:59	02/20/23 20:14	7440-09-7	
Sodium	<b>11.2</b>	mg/L	1.0	0.58	1	02/20/23 10:59	02/20/23 20:14	7440-23-5	
Calcium	<b>26.0</b>	mg/L	1.0	0.12	1	02/20/23 10:59	02/20/23 20:14	7440-70-2	
Magnesium	<b>12.5</b>	mg/L	0.050	0.012	1	02/20/23 10:59	02/20/23 20:14	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	02/16/23 13:08	02/17/23 14:32	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/16/23 13:08	02/17/23 14:32	7440-38-2	
Barium	<b>0.025</b>	mg/L	0.0050	0.00067	1	02/16/23 13:08	02/17/23 14:32	7440-39-3	
Beryllium	<b>0.00070</b>	mg/L	0.00050	0.000054	1	02/16/23 13:08	02/17/23 14:32	7440-41-7	
Boron	<b>0.74</b>	mg/L	0.040	0.0086	1	02/16/23 13:08	02/17/23 14:32	7440-42-8	
Cadmium	<b>0.00087</b>	mg/L	0.00050	0.00011	1	02/16/23 13:08	02/17/23 14:32	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/16/23 13:08	02/17/23 14:32	7440-47-3	
Cobalt	<b>0.0018J</b>	mg/L	0.0050	0.00039	1	02/16/23 13:08	02/17/23 14:32	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/16/23 13:08	02/17/23 14:32	7439-92-1	
Lithium	<b>0.0036J</b>	mg/L	0.030	0.00073	1	02/16/23 13:08	02/17/23 14:32	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/16/23 13:08	02/17/23 14:32	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/16/23 13:08	02/17/23 14:32	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/16/23 13:08	02/17/23 14:32	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	02/27/23 15:15	02/28/23 08:54	7439-97-6	
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**2540C Total Dissolved Solids**

Analytical Method: SM 2540C-2015  
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	<b>223</b>	mg/L	25.0	25.0	1		02/13/23 11:04		
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**2320B Alkalinity**

Analytical Method: SM 2320B-2011  
Pace Analytical Services - Asheville

Alkalinity,Bicarbonate (CaCO3)	<b>8.1</b>	mg/L	5.0	5.0	1		02/16/23 10:30		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/16/23 10:30		
Alkalinity, Total as CaCO3	<b>8.1</b>	mg/L	5.0	5.0	1		02/16/23 10:30		

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### ANALYTICAL RESULTS

Project: Plant McD AP 2-3/4 DetectionWe  
 Pace Project No.: 92650181

Sample: MCD-DGWC-8		Lab ID: 92650181026		Collected: 02/07/23 12:00		Received: 02/08/23 13:48		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	<b>8.7</b>	mg/L	1.0	0.60	1		02/10/23 15:06	16887-00-6	
Fluoride	<b>0.13</b>	mg/L	0.10	0.050	1		02/10/23 15:06	16984-48-8	
Sulfate	<b>118</b>	mg/L	3.0	1.5	3		02/11/23 07:37	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

Sample: MCD-DGWC-20 Lab ID: 92650181027 Collected: 02/07/23 10:38 Received: 02/08/23 13:48 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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#### Monitoring Well Data

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	Client				1		02/14/23 16:30		
Collected Date	02/07/23				1		02/14/23 16:30		
Collected Time	10:45				1		02/14/23 16:30		
pH	4.33	Std. Units			1		02/14/23 16:30		

#### 6010D ATL ICP

Analytical Method: EPA 6010D Preparation Method: EPA 3010A  
Pace Analytical Services - Peachtree Corners, GA

Iron	ND	mg/L	0.20	0.13	5	02/20/23 10:59	02/21/23 14:54	7439-89-6	D3
Potassium	14.1	mg/L	1.0	0.76	5	02/20/23 10:59	02/21/23 14:54	7440-09-7	
Sodium	20.9	mg/L	5.0	2.9	5	02/20/23 10:59	02/21/23 14:54	7440-23-5	
Calcium	110	mg/L	5.0	0.61	5	02/20/23 10:59	02/21/23 14:54	7440-70-2	
Magnesium	23.6	mg/L	0.25	0.059	5	02/20/23 10:59	02/21/23 14:54	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	02/16/23 13:08	02/17/23 14:38	7440-36-0	
Arsenic	0.023	mg/L	0.0050	0.0022	1	02/16/23 13:08	02/17/23 14:38	7440-38-2	
Barium	0.019	mg/L	0.0050	0.00067	1	02/16/23 13:08	02/17/23 14:38	7440-39-3	
Beryllium	0.0073	mg/L	0.00050	0.000054	1	02/16/23 13:08	02/17/23 14:38	7440-41-7	
Boron	3.0	mg/L	0.040	0.0086	1	02/16/23 13:08	02/17/23 14:38	7440-42-8	
Cadmium	0.0027	mg/L	0.00050	0.00011	1	02/16/23 13:08	02/17/23 14:38	7440-43-9	
Chromium	0.0023J	mg/L	0.0050	0.0011	1	02/16/23 13:08	02/17/23 14:38	7440-47-3	
Cobalt	1.0	mg/L	0.0050	0.00039	1	02/16/23 13:08	02/17/23 14:38	7440-48-4	
Lead	ND	mg/L	0.0050	0.0044	5	02/16/23 13:08	02/20/23 13:34	7439-92-1	D3
Lithium	0.013J	mg/L	0.030	0.00073	1	02/16/23 13:08	02/17/23 14:38	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/16/23 13:08	02/17/23 14:38	7439-98-7	
Selenium	0.057	mg/L	0.0050	0.0014	1	02/16/23 13:08	02/17/23 14:38	7782-49-2	
Thallium	0.0018J	mg/L	0.0050	0.00090	5	02/16/23 13:08	02/20/23 13:34	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	02/27/23 15:15	02/28/23 08:57	7439-97-6	
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#### 2540C Total Dissolved Solids

Analytical Method: SM 2540C-2015  
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	848	mg/L	25.0	25.0	1		02/13/23 11:04		
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#### 2320B Alkalinity

Analytical Method: SM 2320B-2011  
Pace Analytical Services - Asheville

Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/16/23 10:35		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/16/23 10:35		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		02/16/23 10:35		

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### ANALYTICAL RESULTS

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

Sample: MCD-DGWC-20 Lab ID: 92650181027 Collected: 02/07/23 10:38 Received: 02/08/23 13:48 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	27.9	mg/L	1.0	0.60	1		02/10/23 15:22	16887-00-6	
Fluoride	1.1	mg/L	0.10	0.050	1		02/10/23 15:22	16984-48-8	
Sulfate	517	mg/L	11.0	5.5	11		02/11/23 07:53	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

**Sample: MCD-DGWC-21**      **Lab ID: 92650181028**      Collected: 02/07/23 14:56      Received: 02/08/23 13:48      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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**Monitoring Well Data**

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>Client</b>				1		02/14/23 16:31		
Collected Date	<b>02/07/23</b>				1		02/14/23 16:31		
Collected Time	<b>15:00</b>				1		02/14/23 16:31		
pH	<b>5.70</b>	Std. Units			1		02/14/23 16:31		

**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	02/20/23 10:59	02/20/23 20:24	7439-89-6	
Potassium	<b>6.3</b>	mg/L	0.20	0.15	1	02/20/23 10:59	02/20/23 20:24	7440-09-7	
Sodium	<b>23.5</b>	mg/L	1.0	0.58	1	02/20/23 10:59	02/20/23 20:24	7440-23-5	
Calcium	<b>84.8</b>	mg/L	1.0	0.12	1	02/20/23 10:59	02/20/23 20:24	7440-70-2	
Magnesium	<b>16.9</b>	mg/L	0.050	0.012	1	02/20/23 10:59	02/20/23 20:24	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	02/16/23 13:08	02/17/23 14:44	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/16/23 13:08	02/17/23 14:44	7440-38-2	
Barium	<b>0.024</b>	mg/L	0.0050	0.00067	1	02/16/23 13:08	02/17/23 14:44	7440-39-3	
Beryllium	<b>0.00016J</b>	mg/L	0.00050	0.000054	1	02/16/23 13:08	02/17/23 14:44	7440-41-7	
Boron	<b>5.6</b>	mg/L	0.040	0.0086	1	02/16/23 13:08	02/17/23 14:44	7440-42-8	
Cadmium	<b>0.00059</b>	mg/L	0.00050	0.00011	1	02/16/23 13:08	02/17/23 14:44	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/16/23 13:08	02/17/23 14:44	7440-47-3	
Cobalt	<b>0.0088</b>	mg/L	0.0050	0.00039	1	02/16/23 13:08	02/17/23 14:44	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/16/23 13:08	02/17/23 14:44	7439-92-1	
Lithium	<b>0.0056J</b>	mg/L	0.030	0.00073	1	02/16/23 13:08	02/17/23 14:44	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/16/23 13:08	02/17/23 14:44	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/16/23 13:08	02/17/23 14:44	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/16/23 13:08	02/17/23 14:44	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	02/27/23 15:15	02/28/23 09:05	7439-97-6	
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**2540C Total Dissolved Solids**

Analytical Method: SM 2540C-2015  
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	<b>498</b>	mg/L	25.0	25.0	1		02/13/23 11:05		
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**2320B Alkalinity**

Analytical Method: SM 2320B-2011  
Pace Analytical Services - Asheville

Alkalinity,Bicarbonate (CaCO3)	<b>28.7</b>	mg/L	5.0	5.0	1		02/16/23 10:39		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/16/23 10:39		
Alkalinity, Total as CaCO3	<b>28.7</b>	mg/L	5.0	5.0	1		02/16/23 10:39		

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### ANALYTICAL RESULTS

Project: Plant McD AP 2-3/4 DetectionWe  
 Pace Project No.: 92650181

Sample: MCD-DGWC-21		Lab ID: 92650181028		Collected: 02/07/23 14:56		Received: 02/08/23 13:48		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	<b>18.6</b>	mg/L	1.0	0.60	1		02/10/23 16:28	16887-00-6	
Fluoride	<b>0.059J</b>	mg/L	0.10	0.050	1		02/10/23 16:28	16984-48-8	
Sulfate	<b>285</b>	mg/L	6.0	3.0	6		02/11/23 08:09	14808-79-8	

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## ANALYTICAL RESULTS

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

Sample: MCD-AP234-EB-5 Lab ID: 92650181029 Collected: 02/07/23 09:00 Received: 02/08/23 13:48 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	ND	mg/L	0.040	0.025	1	02/20/23 10:59	02/20/23 20:43	7439-89-6	
Potassium	ND	mg/L	0.20	0.15	1	02/20/23 10:59	02/20/23 20:43	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	02/20/23 10:59	02/20/23 20:43	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	02/20/23 10:59	02/20/23 20:43	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	02/20/23 10:59	02/20/23 20:43	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/16/23 13:08	02/17/23 14:50	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/16/23 13:08	02/17/23 14:50	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	02/16/23 13:08	02/17/23 14:50	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/16/23 13:08	02/17/23 14:50	7440-41-7	
Boron	0.018J	mg/L	0.040	0.0086	1	02/16/23 13:08	02/19/23 00:10	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/16/23 13:08	02/17/23 14:50	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/16/23 13:08	02/17/23 14:50	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/16/23 13:08	02/17/23 14:50	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/16/23 13:08	02/17/23 14:50	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/16/23 13:08	02/17/23 14:50	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/16/23 13:08	02/17/23 14:50	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/16/23 13:08	02/17/23 14:50	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/16/23 13:08	02/17/23 14:50	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/27/23 15:15	02/28/23 09:07	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		02/13/23 11:05		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/16/23 10:45		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/16/23 10:45		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		02/16/23 10:45		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		02/10/23 16:45	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/10/23 16:45	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/10/23 16:45	14808-79-8	

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## ANALYTICAL RESULTS

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

Sample: MCD-AP234-FB-5 Lab ID: 92650181030 Collected: 02/07/23 10:30 Received: 02/08/23 13:48 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	ND	mg/L	0.040	0.025	1	02/20/23 10:59	02/20/23 20:48	7439-89-6	
Potassium	ND	mg/L	0.20	0.15	1	02/20/23 10:59	02/20/23 20:48	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	02/20/23 10:59	02/20/23 20:48	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	02/20/23 10:59	02/20/23 20:48	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	02/20/23 10:59	02/20/23 20:48	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/16/23 13:08	02/17/23 14:56	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/16/23 13:08	02/17/23 14:56	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	02/16/23 13:08	02/17/23 14:56	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/16/23 13:08	02/17/23 14:56	7440-41-7	
Boron	0.027J	mg/L	0.040	0.0086	1	02/16/23 13:08	02/17/23 14:56	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/16/23 13:08	02/17/23 14:56	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/16/23 13:08	02/17/23 14:56	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/16/23 13:08	02/17/23 14:56	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/16/23 13:08	02/17/23 14:56	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/16/23 13:08	02/17/23 14:56	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/16/23 13:08	02/17/23 14:56	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/16/23 13:08	02/17/23 14:56	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/16/23 13:08	02/17/23 14:56	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/27/23 15:15	02/28/23 09:10	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		02/13/23 11:39		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/16/23 10:49		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/16/23 10:49		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		02/16/23 10:49		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		02/10/23 17:02	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/10/23 17:02	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/10/23 17:02	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

**Sample: MCD-234-FD-6**      **Lab ID: 92650181031**      Collected: 02/07/23 00:00      Received: 02/08/23 13:58      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				

**Monitoring Well Data**

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>Client</b>				1	02/14/23 16:31			
Collected Date	<b>2/7/23</b>				1	02/14/23 16:31			
Collected Time	<b>15:35</b>				1	02/14/23 16:31			

**6010D ATL ICP**

Analytical Method: EPA 6010D      Preparation Method: EPA 3010A  
Pace Analytical Services - Peachtree Corners, GA

Iron	ND	mg/L	0.20	0.13	5	02/20/23 10:59	02/21/23 14:58	7439-89-6	D3
Potassium	<b>15.0</b>	mg/L	1.0	0.76	5	02/20/23 10:59	02/21/23 14:58	7440-09-7	
Sodium	<b>20.8</b>	mg/L	5.0	2.9	5	02/20/23 10:59	02/21/23 14:58	7440-23-5	
Calcium	<b>110</b>	mg/L	5.0	0.61	5	02/20/23 10:59	02/21/23 14:58	7440-70-2	
Magnesium	<b>23.9</b>	mg/L	0.25	0.059	5	02/20/23 10:59	02/21/23 14:58	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	02/16/23 13:08	02/17/23 15:26	7440-36-0	
Arsenic	<b>0.022</b>	mg/L	0.0050	0.0022	1	02/16/23 13:08	02/17/23 15:26	7440-38-2	
Barium	<b>0.018</b>	mg/L	0.0050	0.00067	1	02/16/23 13:08	02/17/23 15:26	7440-39-3	
Beryllium	<b>0.0071</b>	mg/L	0.00050	0.000054	1	02/16/23 13:08	02/17/23 15:26	7440-41-7	
Boron	<b>2.9</b>	mg/L	0.040	0.0086	1	02/16/23 13:08	02/17/23 15:26	7440-42-8	
Cadmium	<b>0.0026</b>	mg/L	0.00050	0.00011	1	02/16/23 13:08	02/17/23 15:26	7440-43-9	
Chromium	<b>0.0024J</b>	mg/L	0.0050	0.0011	1	02/16/23 13:08	02/17/23 15:26	7440-47-3	
Cobalt	<b>0.97</b>	mg/L	0.0050	0.00039	1	02/16/23 13:08	02/17/23 15:26	7440-48-4	
Lead	ND	mg/L	0.0050	0.0044	5	02/16/23 13:08	02/17/23 15:32	7439-92-1	D3
Lithium	<b>0.013J</b>	mg/L	0.030	0.00073	1	02/16/23 13:08	02/17/23 15:26	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/16/23 13:08	02/17/23 15:26	7439-98-7	
Selenium	<b>0.056</b>	mg/L	0.0050	0.0014	1	02/16/23 13:08	02/17/23 15:26	7782-49-2	
Thallium	<b>0.0020J</b>	mg/L	0.0050	0.00090	5	02/16/23 13:08	02/17/23 15:32	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	02/27/23 15:15	02/28/23 09:13	7439-97-6	
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**2540C Total Dissolved Solids**

Analytical Method: SM 2540C-2015  
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	<b>873</b>	mg/L	25.0	25.0	1		02/13/23 11:39		
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**2320B Alkalinity**

Analytical Method: SM 2320B-2011  
Pace Analytical Services - Asheville

Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/16/23 10:54		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/16/23 10:54		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		02/16/23 10:54		

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### ANALYTICAL RESULTS

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

Sample: MCD-234-FD-6 Lab ID: 92650181031 Collected: 02/07/23 00:00 Received: 02/08/23 13:58 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	28.1	mg/L	1.0	0.60	1		02/10/23 17:18	16887-00-6	
Fluoride	1.2	mg/L	0.10	0.050	1		02/10/23 17:18	16984-48-8	
Sulfate	517	mg/L	11.0	5.5	11		02/11/23 08:58	14808-79-8	

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**QUALITY CONTROL DATA**

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

QC Batch:	756097	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples:	92650181001, 92650181002, 92650181003, 92650181004, 92650181005, 92650181006, 92650181007, 92650181008, 92650181009, 92650181010, 92650181011, 92650181012, 92650181013, 92650181014, 92650181015, 92650181016, 92650181017, 92650181018, 92650181019, 92650181020		

METHOD BLANK:	3928370	Matrix:	Water
Associated Lab Samples:	92650181001, 92650181002, 92650181003, 92650181004, 92650181005, 92650181006, 92650181007, 92650181008, 92650181009, 92650181010, 92650181011, 92650181012, 92650181013, 92650181014, 92650181015, 92650181016, 92650181017, 92650181018, 92650181019, 92650181020		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	02/16/23 17:58	
Iron	mg/L	ND	0.040	0.025	02/16/23 17:58	
Magnesium	mg/L	ND	0.050	0.012	02/16/23 17:58	
Potassium	mg/L	ND	0.20	0.15	02/16/23 17:58	
Sodium	mg/L	ND	1.0	0.58	02/16/23 17:58	

LABORATORY CONTROL SAMPLE: 3928371						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	101	80-120	
Iron	mg/L	1	0.99	99	80-120	
Magnesium	mg/L	1	1.0	100	80-120	
Potassium	mg/L	1	0.88	88	80-120	
Sodium	mg/L	1	1.1	112	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3928372												3928373	
Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		92650181001 Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	% Rec	% Rec					
Calcium	mg/L	32.7	1	1	34.7	34.8	200	216	75-125	0	20	M1	
Iron	mg/L	0.12	1	1	1.1	1.1	95	95	75-125	0	20		
Magnesium	mg/L	23.8	1	1	25.3	25.5	148	175	75-125	1	20	M1	
Potassium	mg/L	4.4	1	1	5.4	5.5	109	119	75-125	2	20		
Sodium	mg/L	65.5	1	1	68.2	68.9	269	336	75-125	1	20	M1	

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

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**QUALITY CONTROL DATA**

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

QC Batch:	756896	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples:	92650181021, 92650181022, 92650181023, 92650181024, 92650181025, 92650181026, 92650181027, 92650181028, 92650181029, 92650181030, 92650181031		

METHOD BLANK:	3932253	Matrix:	Water
Associated Lab Samples:	92650181021, 92650181022, 92650181023, 92650181024, 92650181025, 92650181026, 92650181027, 92650181028, 92650181029, 92650181030, 92650181031		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	02/20/23 19:02	
Iron	mg/L	ND	0.040	0.025	02/20/23 19:02	
Magnesium	mg/L	ND	0.050	0.012	02/20/23 19:02	
Potassium	mg/L	ND	0.20	0.15	02/20/23 19:02	
Sodium	mg/L	ND	1.0	0.58	02/20/23 19:02	

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.99J	99	80-120	
Iron	mg/L	1	0.99	99	80-120	
Magnesium	mg/L	1	1.0	101	80-120	
Potassium	mg/L	1	1.0	100	80-120	
Sodium	mg/L	1	1.1	109	80-120	

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92650181022 Result	Spike Conc.	Spike Conc.	Result						
Calcium	mg/L	28.3	1	1	29.8	29.7	143	138	75-125	0	20 M1
Iron	mg/L	23.7	1	1	25.0	25.0	133	135	75-125	0	20 M1
Magnesium	mg/L	16.7	1	1	18.0	18.0	130	135	75-125	0	20 M1
Potassium	mg/L	7.1	1	1	8.4	8.4	125	132	75-125	1	20 M1
Sodium	mg/L	9.8	1	1	10.9	10.9	114	115	75-125	0	20

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**QUALITY CONTROL DATA**

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

QC Batch: 756102 Analysis Method: EPA 6020B  
 QC Batch Method: EPA 3005A Analysis Description: 6020 MET  
 Laboratory: Pace Analytical Services - Peachtree Corners, GA  
 Associated Lab Samples: 92650181001, 92650181002, 92650181003, 92650181004, 92650181005, 92650181006, 92650181007, 92650181008, 92650181009, 92650181010, 92650181011, 92650181012, 92650181013, 92650181014, 92650181015, 92650181016, 92650181017, 92650181018, 92650181019, 92650181020

METHOD BLANK: 3928389 Matrix: Water  
 Associated Lab Samples: 92650181001, 92650181002, 92650181003, 92650181004, 92650181005, 92650181006, 92650181007, 92650181008, 92650181009, 92650181010, 92650181011, 92650181012, 92650181013, 92650181014, 92650181015, 92650181016, 92650181017, 92650181018, 92650181019, 92650181020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	02/18/23 17:36	
Arsenic	mg/L	ND	0.0050	0.0022	02/18/23 17:36	
Barium	mg/L	ND	0.0050	0.00067	02/18/23 17:36	
Beryllium	mg/L	ND	0.00050	0.000054	02/18/23 17:36	
Boron	mg/L	ND	0.040	0.0086	02/18/23 17:36	
Cadmium	mg/L	ND	0.00050	0.00011	02/18/23 17:36	
Chromium	mg/L	ND	0.0050	0.0011	02/18/23 17:36	
Cobalt	mg/L	ND	0.0050	0.00039	02/18/23 17:36	
Lead	mg/L	ND	0.0010	0.00089	02/18/23 17:36	
Lithium	mg/L	ND	0.030	0.00073	02/18/23 17:36	
Molybdenum	mg/L	ND	0.010	0.00074	02/18/23 17:36	
Selenium	mg/L	ND	0.0050	0.0014	02/18/23 17:36	
Thallium	mg/L	ND	0.0010	0.00018	02/18/23 17:36	

LABORATORY CONTROL SAMPLE: 3928390

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	104	80-120	
Arsenic	mg/L	0.1	0.095	95	80-120	
Barium	mg/L	0.1	0.099	99	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	0.097	97	80-120	
Chromium	mg/L	0.1	0.099	99	80-120	
Cobalt	mg/L	0.1	0.10	100	80-120	
Lead	mg/L	0.1	0.10	104	80-120	
Lithium	mg/L	0.1	0.10	100	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	0.10	103	80-120	

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**QUALITY CONTROL DATA**

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

Parameter	Units	3928391		3928392		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		92650181002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	104	102	75-125	2	20		
Arsenic	mg/L	ND	0.1	0.1	0.096	0.093	96	93	75-125	2	20		
Barium	mg/L	0.023	0.1	0.1	0.13	0.12	106	101	75-125	4	20		
Beryllium	mg/L	0.000067J	0.1	0.1	0.092	0.089	92	89	75-125	3	20		
Boron	mg/L	0.54	1	1	1.5	1.4	92	90	75-125	1	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	0.098	0.094	97	94	75-125	4	20		
Cobalt	mg/L	ND	0.1	0.1	0.097	0.093	97	93	75-125	3	20		
Lead	mg/L	ND	0.1	0.1	0.10	0.099	102	99	75-125	3	20		
Lithium	mg/L	0.0031J	0.1	0.1	0.096	0.094	93	91	75-125	3	20		
Molybdenum	mg/L	0.0085J	0.1	0.1	0.11	0.11	98	97	75-125	1	20		
Selenium	mg/L	0.0036J	0.1	0.1	0.10	0.098	97	94	75-125	3	20		
Thallium	mg/L	ND	0.1	0.1	0.10	0.099	101	99	75-125	3	20		

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**QUALITY CONTROL DATA**

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

QC Batch:	756320	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3005A	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples:	92650181021, 92650181022, 92650181023, 92650181024, 92650181025, 92650181026, 92650181027, 92650181028, 92650181029, 92650181030, 92650181031		

METHOD BLANK:	3929306	Matrix:	Water
Associated Lab Samples:	92650181021, 92650181022, 92650181023, 92650181024, 92650181025, 92650181026, 92650181027, 92650181028, 92650181029, 92650181030, 92650181031		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	02/17/23 12:51	
Arsenic	mg/L	ND	0.0050	0.0022	02/17/23 12:51	
Barium	mg/L	ND	0.0050	0.00067	02/17/23 12:51	
Beryllium	mg/L	ND	0.00050	0.000054	02/17/23 12:51	
Boron	mg/L	ND	0.040	0.0086	02/17/23 12:51	
Cadmium	mg/L	ND	0.00050	0.00011	02/17/23 12:51	
Chromium	mg/L	ND	0.0050	0.0011	02/17/23 12:51	
Cobalt	mg/L	ND	0.0050	0.00039	02/17/23 12:51	
Lead	mg/L	ND	0.0010	0.00089	02/17/23 12:51	
Lithium	mg/L	ND	0.030	0.00073	02/17/23 12:51	
Molybdenum	mg/L	ND	0.010	0.00074	02/17/23 12:51	
Selenium	mg/L	ND	0.0050	0.0014	02/17/23 12:51	
Thallium	mg/L	ND	0.0010	0.00018	02/17/23 12:51	

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.12	118	80-120	
Arsenic	mg/L	0.1	0.10	104	80-120	
Barium	mg/L	0.1	0.11	105	80-120	
Beryllium	mg/L	0.1	0.10	104	80-120	
Boron	mg/L	1	0.99	99	80-120	
Cadmium	mg/L	0.1	0.10	103	80-120	
Chromium	mg/L	0.1	0.10	103	80-120	
Cobalt	mg/L	0.1	0.10	101	80-120	
Lead	mg/L	0.1	0.11	107	80-120	
Lithium	mg/L	0.1	0.098	98	80-120	
Molybdenum	mg/L	0.1	0.10	105	80-120	
Selenium	mg/L	0.1	0.10	101	80-120	
Thallium	mg/L	0.1	0.11	106	80-120	

Parameter	Units	3929639		3929640		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Antimony	mg/L	ND	0.1	0.1	0.11	0.12	110	115	75-125	4	20

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**QUALITY CONTROL DATA**

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3929639 3929640												
Parameter	Units	92648451004 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Result	Spike Conc.						
Arsenic	mg/L	ND	0.1	0.1	0.11	0.11	106	109	75-125	2	20	
Barium	mg/L	0.014	0.1	0.1	0.12	0.13	110	111	75-125	1	20	
Beryllium	mg/L	0.000081J	0.1	0.1	0.094	0.095	94	95	75-125	1	20	
Boron	mg/L	2.4	1	1	3.4	3.3	98	89	75-125	3	20	
Cadmium	mg/L	0.0017	0.1	0.1	0.11	0.11	103	105	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	102	102	75-125	0	20	
Cobalt	mg/L	0.027	0.1	0.1	0.12	0.13	97	99	75-125	2	20	
Lead	mg/L	ND	0.1	0.1	0.10	0.11	105	105	75-125	0	20	
Lithium	mg/L	0.0011J	0.1	0.1	0.097	0.097	96	96	75-125	0	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.11	104	108	75-125	3	20	
Selenium	mg/L	ND	0.1	0.1	0.11	0.11	105	108	75-125	2	20	
Thallium	mg/L	ND	0.1	0.1	0.11	0.11	106	107	75-125	1	20	

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**QUALITY CONTROL DATA**

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

QC Batch:	757158	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples:	92650181001, 92650181002, 92650181003, 92650181004, 92650181005, 92650181006, 92650181007, 92650181008, 92650181009, 92650181010, 92650181011, 92650181012, 92650181013, 92650181014, 92650181015, 92650181016, 92650181017, 92650181018, 92650181019		

METHOD BLANK:	3933351	Matrix:	Water
Associated Lab Samples:	92650181001, 92650181002, 92650181003, 92650181004, 92650181005, 92650181006, 92650181007, 92650181008, 92650181009, 92650181010, 92650181011, 92650181012, 92650181013, 92650181014, 92650181015, 92650181016, 92650181017, 92650181018, 92650181019		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/21/23 14:15	

LABORATORY CONTROL SAMPLE:	3933352					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0021	84	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	3933353			3933354								
Parameter	Units	92650181003 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	85	85	75-125	1	20	

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**QUALITY CONTROL DATA**

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

QC Batch: 758311 Analysis Method: EPA 7470A  
 QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury  
 Laboratory: Pace Analytical Services - Peachtree Corners, GA  
 Associated Lab Samples: 92650181020, 92650181021, 92650181022, 92650181023, 92650181024, 92650181025, 92650181026, 92650181027, 92650181028, 92650181029, 92650181030, 92650181031

METHOD BLANK: 3939038 Matrix: Water  
 Associated Lab Samples: 92650181020, 92650181021, 92650181022, 92650181023, 92650181024, 92650181025, 92650181026, 92650181027, 92650181028, 92650181029, 92650181030, 92650181031

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/28/23 08:04	

LABORATORY CONTROL SAMPLE: 3939039

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: 3939040 3939041

Parameter	Units	92650181021 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	0.0023	0.0023	92	93	75-125	1	20	

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**QUALITY CONTROL DATA**

Project: Plant McD AP 2-3/4 DetectionWe  
 Pace Project No.: 92650181

QC Batch: 753832 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: 92650181001, 92650181002, 92650181003, 92650181004

METHOD BLANK: 3916393 Matrix: Water  
 Associated Lab Samples: 92650181001, 92650181002, 92650181003, 92650181004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/05/23 14:03	

LABORATORY CONTROL SAMPLE: 3916394

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	382	96	80-120	

SAMPLE DUPLICATE: 3916858

Parameter	Units	92649872010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	67.0	69.0	3	10	

SAMPLE DUPLICATE: 3916859

Parameter	Units	92650181004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	536	543	1	10	

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**QUALITY CONTROL DATA**

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

QC Batch:	754118	Analysis Method:	SM 2540C-2015
QC Batch Method:	SM 2540C-2015	Analysis Description:	2540C Total Dissolved Solids
Associated Lab Samples:	92650181005, 92650181006	Laboratory:	Pace Analytical Services - Peachtree Corners, GA

METHOD BLANK: 3917651 Matrix: Water

Associated Lab Samples: 92650181005, 92650181006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/07/23 18:37	

LABORATORY CONTROL SAMPLE: 3917652

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	408	102	80-120	

SAMPLE DUPLICATE: 3917653

Parameter	Units	92648451007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1950	2030	4	10 1g	

SAMPLE DUPLICATE: 3917654

Parameter	Units	92649377019 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	528	540	2	10	

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**QUALITY CONTROL DATA**

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

QC Batch:	754311	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:	92650181007, 92650181008, 92650181011		

METHOD BLANK: 3918591 Matrix: Water

Associated Lab Samples: 92650181007, 92650181008, 92650181011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/07/23 13:13	

LABORATORY CONTROL SAMPLE: 3918592

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	415	104	80-120	

SAMPLE DUPLICATE: 3918593

Parameter	Units	92650181011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		10	

SAMPLE DUPLICATE: 3918594

Parameter	Units	92650573003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	40.0	56.0	33	10	D6

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**QUALITY CONTROL DATA**

Project: Plant McD AP 2-3/4 DetectionWe  
 Pace Project No.: 92650181

QC Batch: 754576 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: 92650181009, 92650181010, 92650181012, 92650181013, 92650181014, 92650181015

METHOD BLANK: 3920182 Matrix: Water  
 Associated Lab Samples: 92650181009, 92650181010, 92650181012, 92650181013, 92650181014, 92650181015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/08/23 18:52	

LABORATORY CONTROL SAMPLE: 3920183

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	379	95	80-120	

SAMPLE DUPLICATE: 3921107

Parameter	Units	92649235040 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2550	2940	14	10	D6

SAMPLE DUPLICATE: 3921108

Parameter	Units	92649235045 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2850	2670	6	10	

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**QUALITY CONTROL DATA**

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

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QC Batch:	754918	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: 92650181016, 92650181017, 92650181018, 92650181019, 92650181020, 92650181021, 92650181022, 92650181023, 92650181024

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METHOD BLANK: 3921953 Matrix: Water

Associated Lab Samples: 92650181016, 92650181017, 92650181018, 92650181019, 92650181020, 92650181021, 92650181022, 92650181023, 92650181024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/10/23 14:14	

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LABORATORY CONTROL SAMPLE: 3921954

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	437	109	80-120	

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SAMPLE DUPLICATE: 3921955

Parameter	Units	92651073001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	31.0	39.0	23	10	D6

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SAMPLE DUPLICATE: 3921956

Parameter	Units	92650181024 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		10	

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**QUALITY CONTROL DATA**

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

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QC Batch: 755432 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: 92650181025, 92650181026, 92650181027, 92650181028, 92650181029

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METHOD BLANK: 3924925 Matrix: Water  
 Associated Lab Samples: 92650181025, 92650181026, 92650181027, 92650181028, 92650181029

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/13/23 11:02	

LABORATORY CONTROL SAMPLE: 3924926

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	389	97	80-120	

SAMPLE DUPLICATE: 3924927

Parameter	Units	92651382008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	78.0	72.0	8	10	

SAMPLE DUPLICATE: 3924928

Parameter	Units	92650182022 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	489	496	1	10	

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### QUALITY CONTROL DATA

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

QC Batch:	755437	Analysis Method:	SM 2540C-2015
QC Batch Method:	SM 2540C-2015	Analysis Description:	2540C Total Dissolved Solids
Associated Lab Samples:	92650181030, 92650181031	Laboratory:	Pace Analytical Services - Peachtree Corners, GA

METHOD BLANK: 3924935 Matrix: Water  
 Associated Lab Samples: 92650181030, 92650181031

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/13/23 11:37	

LABORATORY CONTROL SAMPLE: 3924936

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	408	102	80-120	

SAMPLE DUPLICATE: 3924937

Parameter	Units	92650181030 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	108		10	

SAMPLE DUPLICATE: 3924938

Parameter	Units	92651001002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	196	269	31	10	D6

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**QUALITY CONTROL DATA**

Project: Plant McD AP 2-3/4 DetectionWe  
 Pace Project No.: 92650181

QC Batch: 754277 Analysis Method: SM 2320B-2011  
 QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity  
 Laboratory: Pace Analytical Services - Asheville  
 Associated Lab Samples: 92650181001, 92650181002, 92650181003, 92650181004

METHOD BLANK: 3918411 Matrix: Water  
 Associated Lab Samples: 92650181001, 92650181002, 92650181003, 92650181004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/07/23 13:23	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/07/23 13:23	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/07/23 13:23	

LABORATORY CONTROL SAMPLE: 3918412

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.0	102	80-120	

LABORATORY CONTROL SAMPLE: 3918413

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.1	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3918414 3918415

Parameter	Units	3918414		3918415		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual	
		92650183003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Alkalinity, Total as CaCO3	mg/L	39.8	50	50	91.7	94.4	104	109	80-120	3	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3918416 3918417

Parameter	Units	3918416		3918417		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual	
		92650183004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Alkalinity, Total as CaCO3	mg/L	ND	50	50	50.6	51.1	98	99	80-120	1	25	

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**QUALITY CONTROL DATA**

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

QC Batch:	754413	Analysis Method:	SM 2320B-2011
QC Batch Method:	SM 2320B-2011	Analysis Description:	2320B Alkalinity
		Laboratory:	Pace Analytical Services - Asheville
Associated Lab Samples:	92650181005, 92650181006, 92650181007, 92650181008, 92650181009, 92650181010, 92650181011, 92650181012		

METHOD BLANK:	3919370	Matrix:	Water
Associated Lab Samples:	92650181005, 92650181006, 92650181007, 92650181008, 92650181009, 92650181010, 92650181011, 92650181012		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/08/23 14:25	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/08/23 14:25	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/08/23 14:25	

LABORATORY CONTROL SAMPLE: 3919371						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.4	101	80-120	

LABORATORY CONTROL SAMPLE: 3919372						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.2	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3919373												3919374	
Parameter	Units	92650181010 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	ND	50	50	50.4	50.5	101	101	80-120	0	25		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3919375												3919376	
Parameter	Units	92650181012 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	ND	50	50	11.2	9.3	22	19	80-120	18	25 M1		

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**QUALITY CONTROL DATA**

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

QC Batch: 754583

Analysis Method: SM 2320B-2011

QC Batch Method: SM 2320B-2011

Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92650181013

METHOD BLANK: 3920245

Matrix: Water

Associated Lab Samples: 92650181013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/09/23 13:05	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/09/23 13:05	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/09/23 13:05	

LABORATORY CONTROL SAMPLE: 3920246

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.1	100	80-120	

LABORATORY CONTROL SAMPLE: 3920247

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.2	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3920248 3920249

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		Result	Spike Conc.	Spike Conc.	Result							
Alkalinity, Total as CaCO3	mg/L	40.7	50	50	93.2	93.5	105	106	80-120	0	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3920250 3920251

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		Result	Spike Conc.	Spike Conc.	Result							
Alkalinity, Total as CaCO3	mg/L	24.7	50	50	73.9	74.3	98	99	80-120	1	25	

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**QUALITY CONTROL DATA**

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

QC Batch: 754586

Analysis Method: SM 2320B-2011

QC Batch Method: SM 2320B-2011

Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92650181014

METHOD BLANK: 3920291

Matrix: Water

Associated Lab Samples: 92650181014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/09/23 16:34	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/09/23 16:34	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/09/23 16:34	

LABORATORY CONTROL SAMPLE: 3920292

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.0	100	80-120	

LABORATORY CONTROL SAMPLE: 3920293

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.3	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3920294 3920295

Parameter	Units	92650414024		3920294		3920295		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Result	MSD Result	MS Result	MSD Result					
Alkalinity, Total as CaCO3	mg/L	ND	50	50	50.4	50.3	101	101	80-120	0	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3920296 3920297

Parameter	Units	92650181014		3920296		3920297		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Result	MSD Result	MS Result	MSD Result					
Alkalinity, Total as CaCO3	mg/L	46.5	50	50	101	99.3	108	106	80-120	1	25	

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**QUALITY CONTROL DATA**

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

QC Batch: 754641 Analysis Method: SM 2320B-2011  
 QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity  
 Laboratory: Pace Analytical Services - Asheville  
 Associated Lab Samples: 92650181015, 92650181016, 92650181017, 92650181018, 92650181019, 92650181020, 92650181021, 92650181022, 92650181023, 92650181024

METHOD BLANK: 3920610 Matrix: Water  
 Associated Lab Samples: 92650181015, 92650181016, 92650181017, 92650181018, 92650181019, 92650181020, 92650181021, 92650181022, 92650181023, 92650181024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/08/23 17:47	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/08/23 17:47	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/08/23 17:47	

LABORATORY CONTROL SAMPLE: 3920611

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.8	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3920613 3920614

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92650181024 Result	Spike Conc.	Spike Conc.	Conc.								
Alkalinity, Total as CaCO3	mg/L	ND	50	50	49.6	50.0	99	100	80-120	1	25		

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**QUALITY CONTROL DATA**

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

QC Batch: 755965 Analysis Method: SM 2320B-2011  
 QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity  
 Laboratory: Pace Analytical Services - Asheville  
 Associated Lab Samples: 92650181025, 92650181026, 92650181027, 92650181028, 92650181029, 92650181030, 92650181031

METHOD BLANK: 3927497 Matrix: Water  
 Associated Lab Samples: 92650181025, 92650181026, 92650181027, 92650181028, 92650181029, 92650181030, 92650181031

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/16/23 10:05	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/16/23 10:05	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/16/23 10:05	

LABORATORY CONTROL SAMPLE: 3927498

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.9	100	80-120	

LABORATORY CONTROL SAMPLE: 3927499

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.8	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3927500 3927501

Parameter	Units	92649235057		92649235058		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MSD Spike Conc.								
Alkalinity, Total as CaCO3	mg/L	149	50	50	50	207	210	116	123	80-120	2	25	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3927502 3927503

Parameter	Units	92649235058		92649235057		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MSD Spike Conc.								
Alkalinity, Total as CaCO3	mg/L	ND	50	50	50	50.0	50.0	100	100	80-120	0	25	

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**QUALITY CONTROL DATA**

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

QC Batch: 753991 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: 92650181001, 92650181002, 92650181003, 92650181004

METHOD BLANK: 3916900 Matrix: Water  
 Associated Lab Samples: 92650181001, 92650181002, 92650181003, 92650181004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/06/23 14:36	
Fluoride	mg/L	ND	0.10	0.050	02/06/23 14:36	
Sulfate	mg/L	ND	1.0	0.50	02/06/23 14:36	

LABORATORY CONTROL SAMPLE: 3916901

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	53.8	108	90-110	
Fluoride	mg/L	2.5	2.7	109	90-110	
Sulfate	mg/L	50	53.9	108	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3916902 3916903

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92650019010 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	4.7	50	50	55.5	56.6	102	104	90-110	2	10		
Fluoride	mg/L	2.7	2.5	2.5	4.8	4.8	87	86	90-110	0	10	M1	
Sulfate	mg/L	97.3	50	50	146	144	97	94	90-110	1	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3916904 3916905

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92650181004 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	19.2	50	50	70.5	71.4	102	104	90-110	1	10		
Fluoride	mg/L	ND	2.5	2.5	2.6	2.7	103	105	90-110	2	10		
Sulfate	mg/L	309	50	50	353	352	89	86	90-110	0	10	M1	

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**QUALITY CONTROL DATA**

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

QC Batch:	754259	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: 92650181005, 92650181006

METHOD BLANK: 3918323 Matrix: Water

Associated Lab Samples: 92650181005, 92650181006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/07/23 23:52	
Fluoride	mg/L	ND	0.10	0.050	02/07/23 23:52	
Sulfate	mg/L	ND	1.0	0.50	02/07/23 23:52	

LABORATORY CONTROL SAMPLE: 3918324

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.9	100	90-110	
Fluoride	mg/L	2.5	2.6	104	90-110	
Sulfate	mg/L	50	50.7	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3918325 3918326

Parameter	Units	92650416003		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	0.93J	50	50	50.7	51.7	99	101	90-110	2	10		
Fluoride	mg/L	0.31	2.5	2.5	2.9	3.0	105	107	90-110	1	10		
Sulfate	mg/L	35.3	50	50	84.9	85.9	99	101	90-110	1	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3918327 3918328

Parameter	Units	92650182006		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	10.8	50	50	61.1	62.2	100	103	90-110	2	10		
Fluoride	mg/L	0.091J	2.5	2.5	2.7	2.8	105	108	90-110	3	10		
Sulfate	mg/L	252	50	50	296	296	88	88	90-110	0	10 M1		

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**QUALITY CONTROL DATA**

Project: Plant McD AP 2-3/4 DetectionWe  
 Pace Project No.: 92650181

QC Batch: 754261 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: 92650181007, 92650181008, 92650181009, 92650181010, 92650181011, 92650181012, 92650181013

METHOD BLANK: 3918330 Matrix: Water  
 Associated Lab Samples: 92650181007, 92650181008, 92650181009, 92650181010, 92650181011, 92650181012, 92650181013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/07/23 18:29	
Fluoride	mg/L	ND	0.10	0.050	02/07/23 18:29	
Sulfate	mg/L	ND	1.0	0.50	02/07/23 18:29	

LABORATORY CONTROL SAMPLE: 3918331

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.6	99	90-110	
Fluoride	mg/L	2.5	2.6	103	90-110	
Sulfate	mg/L	50	48.9	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3918332 3918333

Parameter	Units	92650181007		92650181008		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	2.6	50	50	52.2	52.2	99	99	90-110	0	10		
Fluoride	mg/L	0.45	2.5	2.5	2.9	2.9	97	99	90-110	1	10		
Sulfate	mg/L	138	50	50	186	187	96	97	90-110	0	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3918334 3918335

Parameter	Units	92650183008		92650183009		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	9.4	50	50	60.0	60.9	101	103	90-110	1	10		
Fluoride	mg/L	0.068J	2.5	2.5	2.5	2.6	98	101	90-110	2	10		
Sulfate	mg/L	117	50	50	166	166	98	99	90-110	0	10		

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**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL DATA**

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

QC Batch:	754531	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:	92650181014, 92650181015, 92650181016, 92650181017, 92650181018, 92650181019, 92650181020, 92650181021, 92650181022, 92650181023, 92650181024		

METHOD BLANK:	3919918	Matrix:	Water
Associated Lab Samples:	92650181014, 92650181015, 92650181016, 92650181017, 92650181018, 92650181019, 92650181020, 92650181021, 92650181022, 92650181023, 92650181024		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/08/23 13:05	
Fluoride	mg/L	ND	0.10	0.050	02/08/23 13:05	
Sulfate	mg/L	ND	1.0	0.50	02/08/23 13:05	

LABORATORY CONTROL SAMPLE: 3919919						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.2	98	90-110	
Fluoride	mg/L	2.5	2.5	101	90-110	
Sulfate	mg/L	50	49.6	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3919920												3919921	
Parameter	Units	92650810001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Chloride	mg/L	2.6	50	50	52.0	53.5	99	102	90-110	3	10		
Fluoride	mg/L	ND	2.5	2.5	2.5	2.6	98	101	90-110	3	10		
Sulfate	mg/L	1.4	50	50	50.8	52.2	99	102	90-110	3	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3919922												3919923	
Parameter	Units	92650181017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Chloride	mg/L	18.8	50	50	68.9	70.1	100	103	90-110	2	10		
Fluoride	mg/L	0.096J	2.5	2.5	2.7	2.8	105	107	90-110	2	10		
Sulfate	mg/L	262	50	50	306	308	88	92	90-110	1	10 M1		

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**QUALITY CONTROL DATA**

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

QC Batch:	755106	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: 92650181025, 92650181026, 92650181027, 92650181028, 92650181029, 92650181030, 92650181031

METHOD BLANK: 3923327 Matrix: Water  
 Associated Lab Samples: 92650181025, 92650181026, 92650181027, 92650181028, 92650181029, 92650181030, 92650181031

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/10/23 12:53	
Fluoride	mg/L	ND	0.10	0.050	02/10/23 12:53	
Sulfate	mg/L	ND	1.0	0.50	02/10/23 12:53	

LABORATORY CONTROL SAMPLE: 3923328

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.8	104	90-110	
Fluoride	mg/L	2.5	2.7	109	90-110	
Sulfate	mg/L	50	52.8	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3923329 3923330

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92651415001 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	7.9	50	50	58.6	58.5	101	101	90-110	0	10		
Fluoride	mg/L	0.070J	2.5	2.5	2.5	2.5	98	98	90-110	0	10		
Sulfate	mg/L	110	50	50	158	158	96	96	90-110	0	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3923331 3923332

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92651103002 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	99.4	50	50	144	147	90	95	90-110	2	10		
Fluoride	mg/L	7.0	2.5	2.5	9.0	9.2	82	87	90-110	1	10 M1		
Sulfate	mg/L	16.3	50	50	68.3	70.6	104	109	90-110	3	10		

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## QUALIFIERS

Project: Plant McD AP 2-3/4 DetectionWe  
Pace Project No.: 92650181

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### 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 Sample residue exceeded method SM 2540C recommended 200 mg.  
D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.  
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 McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92650181001	MCD-DGWC-42				
92650181002	MCD-DGWC-13				
92650181003	MCD-DGWC-14				
92650181004	MCD-AP234-FD-4				
92650181005	MCD-DGWC-10				
92650181006	MCD-DGWC-15				
92650181007	MCD-DGWC-47				
92650181008	MCD-DGWC-4				
92650181009	MCD-DGWC-48				
92650181012	MCD-DGWC-9				
92650181013	MCD-AP234-FD-2				
92650181014	MCD-DGWC-2				
92650181015	MCD-DGWC-11				
92650181016	MCD-DGWC-12				
92650181017	MCD-DGWC-17				
92650181018	MCD-DGWC-19				
92650181019	MCD-DGWC-22				
92650181020	MCD-DGWC-23				
92650181022	MCD-234-FD-3				
92650181023	MCD-234-FD-5				
92650181025	MCD-DGWC-5				
92650181026	MCD-DGWC-8				
92650181027	MCD-DGWC-20				
92650181028	MCD-DGWC-21				
92650181031	MCD-234-FD-6				
92650181001	MCD-DGWC-42	EPA 3010A	756097	EPA 6010D	756139
92650181002	MCD-DGWC-13	EPA 3010A	756097	EPA 6010D	756139
92650181003	MCD-DGWC-14	EPA 3010A	756097	EPA 6010D	756139
92650181004	MCD-AP234-FD-4	EPA 3010A	756097	EPA 6010D	756139
92650181005	MCD-DGWC-10	EPA 3010A	756097	EPA 6010D	756139
92650181006	MCD-DGWC-15	EPA 3010A	756097	EPA 6010D	756139
92650181007	MCD-DGWC-47	EPA 3010A	756097	EPA 6010D	756139
92650181008	MCD-DGWC-4	EPA 3010A	756097	EPA 6010D	756139
92650181009	MCD-DGWC-48	EPA 3010A	756097	EPA 6010D	756139
92650181010	MCD-AP234-EB-3	EPA 3010A	756097	EPA 6010D	756139
92650181011	MCD-AP234-EB-2	EPA 3010A	756097	EPA 6010D	756139
92650181012	MCD-DGWC-9	EPA 3010A	756097	EPA 6010D	756139
92650181013	MCD-AP234-FD-2	EPA 3010A	756097	EPA 6010D	756139
92650181014	MCD-DGWC-2	EPA 3010A	756097	EPA 6010D	756139
92650181015	MCD-DGWC-11	EPA 3010A	756097	EPA 6010D	756139
92650181016	MCD-DGWC-12	EPA 3010A	756097	EPA 6010D	756139
92650181017	MCD-DGWC-17	EPA 3010A	756097	EPA 6010D	756139
92650181018	MCD-DGWC-19	EPA 3010A	756097	EPA 6010D	756139
92650181019	MCD-DGWC-22	EPA 3010A	756097	EPA 6010D	756139
92650181020	MCD-DGWC-23	EPA 3010A	756097	EPA 6010D	756139
92650181021	MCD-AP234-EB-4	EPA 3010A	756896	EPA 6010D	756964
92650181022	MCD-234-FD-3	EPA 3010A	756896	EPA 6010D	756964
92650181023	MCD-234-FD-5	EPA 3010A	756896	EPA 6010D	756964

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

Table with 6 columns: Lab ID, Sample ID, QC Batch Method, QC Batch, Analytical Method, Analytical Batch. It lists various sample IDs and their corresponding QC and analytical data.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92650181009	MCD-DGWC-48	EPA 7470A	757158	EPA 7470A	757220
92650181010	MCD-AP234-EB-3	EPA 7470A	757158	EPA 7470A	757220
92650181011	MCD-AP234-EB-2	EPA 7470A	757158	EPA 7470A	757220
92650181012	MCD-DGWC-9	EPA 7470A	757158	EPA 7470A	757220
92650181013	MCD-AP234-FD-2	EPA 7470A	757158	EPA 7470A	757220
92650181014	MCD-DGWC-2	EPA 7470A	757158	EPA 7470A	757220
92650181015	MCD-DGWC-11	EPA 7470A	757158	EPA 7470A	757220
92650181016	MCD-DGWC-12	EPA 7470A	757158	EPA 7470A	757220
92650181017	MCD-DGWC-17	EPA 7470A	757158	EPA 7470A	757220
92650181018	MCD-DGWC-19	EPA 7470A	757158	EPA 7470A	757220
92650181019	MCD-DGWC-22	EPA 7470A	757158	EPA 7470A	757220
92650181020	MCD-DGWC-23	EPA 7470A	758311	EPA 7470A	758406
92650181021	MCD-AP234-EB-4	EPA 7470A	758311	EPA 7470A	758406
92650181022	MCD-234-FD-3	EPA 7470A	758311	EPA 7470A	758406
92650181023	MCD-234-FD-5	EPA 7470A	758311	EPA 7470A	758406
92650181024	MCD-AP234-FB-4	EPA 7470A	758311	EPA 7470A	758406
92650181025	MCD-DGWC-5	EPA 7470A	758311	EPA 7470A	758406
92650181026	MCD-DGWC-8	EPA 7470A	758311	EPA 7470A	758406
92650181027	MCD-DGWC-20	EPA 7470A	758311	EPA 7470A	758406
92650181028	MCD-DGWC-21	EPA 7470A	758311	EPA 7470A	758406
92650181029	MCD-AP234-EB-5	EPA 7470A	758311	EPA 7470A	758406
92650181030	MCD-AP234-FB-5	EPA 7470A	758311	EPA 7470A	758406
92650181031	MCD-234-FD-6	EPA 7470A	758311	EPA 7470A	758406
92650181001	MCD-DGWC-42	SM 2540C-2015	753832		
92650181002	MCD-DGWC-13	SM 2540C-2015	753832		
92650181003	MCD-DGWC-14	SM 2540C-2015	753832		
92650181004	MCD-AP234-FD-4	SM 2540C-2015	753832		
92650181005	MCD-DGWC-10	SM 2540C-2015	754118		
92650181006	MCD-DGWC-15	SM 2540C-2015	754118		
92650181007	MCD-DGWC-47	SM 2540C-2015	754311		
92650181008	MCD-DGWC-4	SM 2540C-2015	754311		
92650181009	MCD-DGWC-48	SM 2540C-2015	754576		
92650181010	MCD-AP234-EB-3	SM 2540C-2015	754576		
92650181011	MCD-AP234-EB-2	SM 2540C-2015	754311		
92650181012	MCD-DGWC-9	SM 2540C-2015	754576		
92650181013	MCD-AP234-FD-2	SM 2540C-2015	754576		
92650181014	MCD-DGWC-2	SM 2540C-2015	754576		
92650181015	MCD-DGWC-11	SM 2540C-2015	754576		
92650181016	MCD-DGWC-12	SM 2540C-2015	754918		
92650181017	MCD-DGWC-17	SM 2540C-2015	754918		
92650181018	MCD-DGWC-19	SM 2540C-2015	754918		
92650181019	MCD-DGWC-22	SM 2540C-2015	754918		
92650181020	MCD-DGWC-23	SM 2540C-2015	754918		
92650181021	MCD-AP234-EB-4	SM 2540C-2015	754918		
92650181022	MCD-234-FD-3	SM 2540C-2015	754918		

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: Plant McD AP 2-3/4 DetectionWe  
 Pace Project No.: 92650181

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92650181023	MCD-234-FD-5	SM 2540C-2015	754918		
92650181024	MCD-AP234-FB-4	SM 2540C-2015	754918		
92650181025	MCD-DGWC-5	SM 2540C-2015	755432		
92650181026	MCD-DGWC-8	SM 2540C-2015	755432		
92650181027	MCD-DGWC-20	SM 2540C-2015	755432		
92650181028	MCD-DGWC-21	SM 2540C-2015	755432		
92650181029	MCD-AP234-EB-5	SM 2540C-2015	755432		
92650181030	MCD-AP234-FB-5	SM 2540C-2015	755437		
92650181031	MCD-234-FD-6	SM 2540C-2015	755437		
92650181001	MCD-DGWC-42	SM 2320B-2011	754277		
92650181002	MCD-DGWC-13	SM 2320B-2011	754277		
92650181003	MCD-DGWC-14	SM 2320B-2011	754277		
92650181004	MCD-AP234-FD-4	SM 2320B-2011	754277		
92650181005	MCD-DGWC-10	SM 2320B-2011	754413		
92650181006	MCD-DGWC-15	SM 2320B-2011	754413		
92650181007	MCD-DGWC-47	SM 2320B-2011	754413		
92650181008	MCD-DGWC-4	SM 2320B-2011	754413		
92650181009	MCD-DGWC-48	SM 2320B-2011	754413		
92650181010	MCD-AP234-EB-3	SM 2320B-2011	754413		
92650181011	MCD-AP234-EB-2	SM 2320B-2011	754413		
92650181012	MCD-DGWC-9	SM 2320B-2011	754413		
92650181013	MCD-AP234-FD-2	SM 2320B-2011	754583		
92650181014	MCD-DGWC-2	SM 2320B-2011	754586		
92650181015	MCD-DGWC-11	SM 2320B-2011	754641		
92650181016	MCD-DGWC-12	SM 2320B-2011	754641		
92650181017	MCD-DGWC-17	SM 2320B-2011	754641		
92650181018	MCD-DGWC-19	SM 2320B-2011	754641		
92650181019	MCD-DGWC-22	SM 2320B-2011	754641		
92650181020	MCD-DGWC-23	SM 2320B-2011	754641		
92650181021	MCD-AP234-EB-4	SM 2320B-2011	754641		
92650181022	MCD-234-FD-3	SM 2320B-2011	754641		
92650181023	MCD-234-FD-5	SM 2320B-2011	754641		
92650181024	MCD-AP234-FB-4	SM 2320B-2011	754641		
92650181025	MCD-DGWC-5	SM 2320B-2011	755965		
92650181026	MCD-DGWC-8	SM 2320B-2011	755965		
92650181027	MCD-DGWC-20	SM 2320B-2011	755965		
92650181028	MCD-DGWC-21	SM 2320B-2011	755965		
92650181029	MCD-AP234-EB-5	SM 2320B-2011	755965		
92650181030	MCD-AP234-FB-5	SM 2320B-2011	755965		
92650181031	MCD-234-FD-6	SM 2320B-2011	755965		
92650181001	MCD-DGWC-42	EPA 300.0 Rev 2.1 1993	753991		
92650181002	MCD-DGWC-13	EPA 300.0 Rev 2.1 1993	753991		
92650181003	MCD-DGWC-14	EPA 300.0 Rev 2.1 1993	753991		
92650181004	MCD-AP234-FD-4	EPA 300.0 Rev 2.1 1993	753991		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McD AP 2-3/4 DetectionWe

Pace Project No.: 92650181

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92650181005	MCD-DGWC-10	EPA 300.0 Rev 2.1 1993	754259		
92650181006	MCD-DGWC-15	EPA 300.0 Rev 2.1 1993	754259		
92650181007	MCD-DGWC-47	EPA 300.0 Rev 2.1 1993	754261		
92650181008	MCD-DGWC-4	EPA 300.0 Rev 2.1 1993	754261		
92650181009	MCD-DGWC-48	EPA 300.0 Rev 2.1 1993	754261		
92650181010	MCD-AP234-EB-3	EPA 300.0 Rev 2.1 1993	754261		
92650181011	MCD-AP234-EB-2	EPA 300.0 Rev 2.1 1993	754261		
92650181012	MCD-DGWC-9	EPA 300.0 Rev 2.1 1993	754261		
92650181013	MCD-AP234-FD-2	EPA 300.0 Rev 2.1 1993	754261		
92650181014	MCD-DGWC-2	EPA 300.0 Rev 2.1 1993	754531		
92650181015	MCD-DGWC-11	EPA 300.0 Rev 2.1 1993	754531		
92650181016	MCD-DGWC-12	EPA 300.0 Rev 2.1 1993	754531		
92650181017	MCD-DGWC-17	EPA 300.0 Rev 2.1 1993	754531		
92650181018	MCD-DGWC-19	EPA 300.0 Rev 2.1 1993	754531		
92650181019	MCD-DGWC-22	EPA 300.0 Rev 2.1 1993	754531		
92650181020	MCD-DGWC-23	EPA 300.0 Rev 2.1 1993	754531		
92650181021	MCD-AP234-EB-4	EPA 300.0 Rev 2.1 1993	754531		
92650181022	MCD-234-FD-3	EPA 300.0 Rev 2.1 1993	754531		
92650181023	MCD-234-FD-5	EPA 300.0 Rev 2.1 1993	754531		
92650181024	MCD-AP234-FB-4	EPA 300.0 Rev 2.1 1993	754531		
92650181025	MCD-DGWC-5	EPA 300.0 Rev 2.1 1993	755106		
92650181026	MCD-DGWC-8	EPA 300.0 Rev 2.1 1993	755106		
92650181027	MCD-DGWC-20	EPA 300.0 Rev 2.1 1993	755106		
92650181028	MCD-DGWC-21	EPA 300.0 Rev 2.1 1993	755106		
92650181029	MCD-AP234-EB-5	EPA 300.0 Rev 2.1 1993	755106		
92650181030	MCD-AP234-FB-5	EPA 300.0 Rev 2.1 1993	755106		
92650181031	MCD-234-FD-6	EPA 300.0 Rev 2.1 1993	755106		

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DC#\_Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Sample Condition Upon Receipt

Client Name:

GA Power

Project #:

WO#: 92650181



Courier:  Commercial  Fed Ex  UPS  USPS  Client  Pace  Other:

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 2/2/23 [initials]

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:

3.1

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):

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 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 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

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

Project #

WO#: 92650181

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

PM: BV

Due Date: 02/16/23

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

CLIENT: GA-GA Power

\*\*\*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-)	WG6U-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2SO3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG6U-100 mL Amber Unpreserved (N/A) (Cl-)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
1	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.



DC#\_Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Sample Condition Upon Receipt

Client Name: GA Power

Project # **WO#: 92650181**

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace  Other: \_\_\_\_\_

PM: BV Due Date: 02/16/23  
CLIENT: GA-GA Power

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 2/3/23  
COB

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: 3.8 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): 3.8

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.
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 type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-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: \_\_\_\_\_



DC#\_ Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

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

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

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

\*\*\*Check all unpreserved Nitrates for chlorine

Project #

**WO# : 92650181**

PM: BV

Due Date: 02/16/23

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP2U-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)	DG9A-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP9T-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																										
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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 DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.



DC#\_Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Sample Condition Upon Receipt

Client Name: GA Power

Project #: WO#: 92650181

Courier:  Commercial  Fed Ex  UPS  USPS  Client  Pace  Other:

PM: BV Due Date: 02/16/23 CLIENT: GA-GA Power

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 2/7/23 [initials]

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?

Thermometer:

Yes  No  N/A

IR Gun ID: 214

Type of Ice:  Wet  Blue  None

Cooler Temp: 2.1 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): 2.2

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 type="checkbox"/> Yes <input checked="" 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.	B-107D one BPIN arrived empty.
-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 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 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

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

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

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

\*\*\*Check all unpreserved Nitrates for chlorine

Project #

WO#: 92650181

PM: BV

Due Date: 02/16/23

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-)	WG FU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1M-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
1	3	1																											
2	2	1																											
3	2	1																											
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9	2	1																											
10	3	1																											
11	3	1																											
12	2	1																											

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.





DC#\_Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

WO#: 92650181

Project #

PM: BV

Due Date: 02/16/23

CLIENT: GA-GA Power

\*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/BO15 (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-)	AG3S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2SO3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
1	2	1																											
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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.



DC#\_Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Meridian

Sample Condition Upon Receipt

Client Name:

GA Power

Project #:

WO#: 92650181

PM: BV

Due Date: 02/16/23

CLIENT: GA-GA Power

Courier:  Commercial  Fed Ex  Pace  UPS  USPS  Other: Client

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 2/8/23 CM

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: 2.4 Correction Factor: 0.0 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): 2.4

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 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: \_\_\_\_\_



Effective Date: 11/14/2022

**WO# : 92650181**

Project #

PM: BV

Due Date: 02/16/23

CLIENT: GA-GA Power

\*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

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)	DG9A-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL. Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)			
1	2	1																												
2	2	1																												
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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: Georgia Power - Coal Combustion Residuals

Company: 2400 Miami Road, Atlanta, GA 30339. Address: 2400 Miami Road, Atlanta, GA 30339. Email: labcode@gsulbent.com. Phone: (470) 920-9176. Requested Date: 10 Day TAT

Section B

Required Project Information: Report To: Lauren Cohen

Project Name: Plant MED AP 2-341 Deacidon Valve Network. Project #: GL186348822

Section C

Invoice Information: Attention: ccs@gsulbent.com

Company Name: Address: Project Manager: Nicole D'Onofrio

Requested Analysis Filtered (Y/N) table with columns for various analytes like App III/IV + Mg, Na, K, Fe, Cl, F, SO4, Radium 9513/9320, TDS, Alkalinity, Fe Total, Fe 3+, and Sulfur Iron.

Main data table with columns: ITEM #, SAMPLE ID, MATRIX CODE, SAMPLE TYPE, DATE, TIME, SAMPLE TEMP AT COLLECTION, # OF CONTAINERS, Preservatives (H2SO4, HNO3 + Ice, HCl, NaOH + Zn Acetate, Na2S2O3, Methanol, Other), Analytes Test (Y/N), Residual Chlorine (Y/N), pH, Fe2, Fe3, and Fe2+Fe3.

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

Task Code = MCD-CCR-ASSMT-202351. ADDITIONAL COMMENTS: M. BAH 2-2-23 11:36 M. BAH 2-2-23 2-2-23. DATE Signed:

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

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Laurien Ocker	Analyst:	scfontecase@scs.cdhm.ga.gov
Address:	2480 Warner Road Atlanta, GA 30339	Copy To:	Goldier	Company Name:	
Email:	PROJECTS@SCSULTRA103.COM	Purchase Order #:	Plant MCD-AP-2-3/4 Detection	Address:	
Phone:	(478) 820-6176	Project Name:	Well Network	Project Mgr:	Bonnie Vang
Requested Date:	10 Day TAT	Project #:	GA166245622	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								
								# OF CONTAINERS								Requester Analysis Filtered (Y/N)								
								Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	App (UV + Mg, Na, K)	Cl, F, SO4	Radium 8513/6320	FDS	Alkalinity	Fe Total, Fe 3+ (Ferroc calculation)			
1	MCD-DGWC-10-WG-20230202	WG	G	2/2/23	10:10			6	3	5							X	X	X	X	X	X	X	
2	MCD-DGWC-15-WG-20230202	WG	G	2/2/23	15:00			6	3	3							X	X	X	X	X	X	X	
3	MCD-DGWC-47-WG-20230203	WG	G	2/2/23	12:47			6	3	3							X	X	X	X	X	X	X	
4	MCD-DGWC-4-WG-20230203	WG	G	2/2/23	12:25			6	3	3							X	X	X	X	X	X	X	
5	MCD-DGWC-48-WG-20230203	WG	G	2/2/23	9:50			6	3	3							X	X	X	X	X	X	X	
6	MCD-AP234-EB-3-WG-20230203	WG	G	2/2/23	13:15			6	3	3							X	X	X	X	X	X	X	
7	MCD-AP234-EB-2-WG-20230202	WG	G	2/2/23	15:05			6	3	3							X	X	X	X	X	X	X	
8	MCD-DGWC-3-WG-20230203	WG	G	2/2/23	11:50			6	3	3							X	X	X	X	X	X	X	
9	MCD-AP234-FD-2-WG-20230203	WG	G	2/2/23				6	3	3							X	X	X	X	X	X	X	

ADDITIONAL COMMENTS:	Task Code = MCD-CGR-ASSMT-2023S1
REQUESTED BY / ATTENTION:	M Man Goldier
DATE:	02/03/23
TIME:	1620
ACCEPTED BY / ATTENTION:	<i>[Signature]</i>
DATE:	2/3/23

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

pH = 4.57, F=2 = 0.0 mg/L (F=2 analyzed 2/2/23 at 10:15), Extra Radium at 15:05  
 pH = 5.86, F=2 = 0.0 mg/L (F=2 analyzed 2/2/23 at 15:05)  
 pH = 3.88, F=2 = 1.5 mg/L (F=2 analyzed 2/2/2023 at 12:32)  
 pH = 5.77, F=2 = 0.0 mg/L (F=2 analyzed 2/2/2023 at 12:30)  
 pH = 4.20, F=2 = 3.1 mg/L (F=2 analyzed 2/2/2023 at 09:55)

92656141

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: 2400 Hunter Road Atlanta, GA 30339  
**Section B** Required Project Information: Report To: Lauren Collier Copy To: Golder  
**Section C** Inpector Information: Address: southcoast@scouthemco.com  
 Requested Date: 10 Day TAT  
 Project #: 0118884022  
 Analytical Requester: SA  
 Requested Analysis: Residual Chlorine (Y/N)

ITEM #	MATERIAL	DATE	TIME	SAMPLE TEMP AT COLLECTION	# 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	MCD-DGWC-2-WG-20230206	2/8/23	8:55		3																
2	MCD-DGWC-14-WG-20230206	2/8/23	10:31		3																
3	MCD-DGWC-12-WG-20230206	2/8/23	13:45		3																
4	MCD-DGWC-17-WG-20230206	2/8/23	10:58		3																
5	MCD-DGWC-19-WG-20230206	2/8/23	12:50		3																
6	MCD-DGWC-22-WG-20230206	2/8/23	15:16		3																
7	MCD-DGWC-23-WG-20230206	2/8/23	14:10		3																
8	MCD-AF234-EB-4-WG-20230206	2/8/23	15:55		3																
9	MCD-234-FD-3-WG-20230206	2/8/23	-		3																
10	MCD-234-FD-3-WG-20230206	2/8/23	-		3																
11	MCD-234-FD-3-WG-20230206	2/8/23	-		3																
12	MCD-AF234-FB-4-WG-20230206	2/8/23	8:50		3																
13																					
14																					

Additional Comments: Task Code = MCD-CR-AS9MT-2023ST  
 DATE Signed: 2/17/23  
 Received on Ice (Y/N):  
 Custody Sealed Coder (Y/N):  
 Sample Intact (Y/N):

014  
 015  
 016  
 017  
 018  
 019  
 020  
 021  
 022  
 023  
 024

Resubmitted

# 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 Maier Road  
 Atlanta, GA 30339

Report To: Lauren Cotler  
 Copy To: Golder

Email: [lauren.cotler@southernco.com](mailto:lauren.cotler@southernco.com)  
 Project Name: Plant MCD AP 2.3/4 Collection  
 Wall Network

Phone: (470) 620-8176 Fax: \_\_\_\_\_  
 Requested Due Date: 10 Day TAT

Purchase Order #: \_\_\_\_\_  
 Price Project Manager: Bonnie Vang  
 Price Range: \_\_\_\_\_

Admission: [scs@vocon.com](mailto:scs@vocon.com)  
 Company Name:  
 Address:  
 Person Initials:  
 Regulatory Agency:  
 State / Location: GA

Section B

Requested Project Information:

Section C

Invoice Information:

ITEM #	MATRIX	CODE	MATRIX CODE (use valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	# OF CONTAINERS	Preservatives	Analyses Test	Requested Analyte (Y/N)	Residual Chlorine (Y/N)
1	MCD-DGWC-5-WG-20230207	DW	WG	G	2/7/23	10:00	3	Unpreserved - ice	App IIMV + Mg, Na, K, Fe	X	
2	MCD-DGWC-8-WG-20230207	WT	WG	G	2/7/23	12:00	3	H2SO4	Cl, F, SO4	X	
3	MCD-DGWC-20-WG-20230207	WP	WG	G	2/7/23	10:38	3	HNO3 + ice	Radium 8513/9320	X	
4	MCD-DGWC-21-WG-20230207	WT	WG	G	2/7/23	14:56	3	HCl	TDS	X	
6	MCD-AP234-EB-5-WG-20230207	WT	WG	G	2/7/23	9:00	3	NaOH + Zn Acetate	Alkalinity	X	
7	MCD-AP234-FB-5-WG-20230207	WT	WG	G	2/7/23	10:30	3	Na2S2O3	Fe Total, Fe 3+ (Femic calculation)	X	
8	MCD-234-FD-5-WG-20230207	WT	WG	G	2/7/23	-	3	Methanol		X	
9							3	Other		X	

92650161  
 pH = 4.03 Fe2 = 0.0 mg/L (Fe2 analyzed 2/7/23 at 10:00)  
 pH = 5.23 Fe2 = 0.0 mg/L (Fe2 analyzed 2/7/23 at 12:00)  
 pH = 4.35 Fe2 = 0.0 mg/L (Fe2 analyzed 2/7/2023 at 10:45)  
 pH = 5.70 Fe2 = 0.0 mg/L (Fe2 analyzed 2/7/2023 at 15:00), Extra Radium  
 Fe2 = 0.0 (Fe2 sampled at 15:30 analyzed at 15:35)  
 025  
 024  
 024  
 026  
 029  
 030  
 051

ADDITIONAL COMMENTS: MCD-234-FD-5-WG-20230207  
 REQUESTED BY: WSR  
 DATE: 2/8/23  
 TIME: 1:35E  
 ACCEPTED BY: Charles Hunt  
 DATE: 2/8/23  
 TIME: 1:35E  
 SAMPLE CONDITIONS: \_\_\_\_\_

TEMP in C \_\_\_\_\_

Received on Ice (Y/N) \_\_\_\_\_

Custody Sealed Cooler (Y/N) \_\_\_\_\_

Samples Intact (Y/N) \_\_\_\_\_

DATE Signed: \_\_\_\_\_



July 28, 2023

Andrea McClure  
WSP/Golder  
5170 Peachtree Road  
Building 100, Suite 300  
Atlanta, GA 30341

RE: Project: Plant McD AP-2, 3/4 Assessment  
Pace Project No.: 92650182

Dear Andrea McClure:

Enclosed are the analytical results for sample(s) received by the laboratory between February 02, 2023 and February 08, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

Revision 1: Ferric iron did not initially report for 92650182-009.

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

Sincerely,

Bonnie Vang  
bonnie.vang@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: Stephen Benda, Southern Company  
Daniela Herrera, Golder  
Ben Hodges, Georgia Power-CCR  
J. Shelby Mobley, Southern Company  
Charles Norton, Southern Company  
Dawn Prell, WSP USA E&I Inc\_Atlanta

Yong Cheng Soo, WSP/Golder



## REPORT OF LABORATORY ANALYSIS

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### CERTIFICATIONS

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

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**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

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**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

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**Pace Analytical Services Peachtree Corners**

110 Technology Pkwy, Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

Virginia Certification #: 460204

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### REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92650182001	MCD-B-92	Water	01/31/23 12:20	02/02/23 11:36
92650182002	MCD-B-93	Water	01/31/23 14:25	02/02/23 11:36
92650182003	MCD-B-98	Water	01/31/23 16:30	02/02/23 11:36
92650182004	MCD-B-97	Water	02/01/23 11:20	02/02/23 11:36
92650182005	MCD-B-63	Water	02/02/23 13:20	02/03/23 16:23
92650182006	MCD-B-102D	Water	02/02/23 12:05	02/03/23 16:23
92650182007	MCD-B-83	Water	02/03/23 12:15	02/03/23 16:23
92650182008	MCD-B-120D	Water	02/03/23 11:00	02/03/23 16:23
92650182009	MCD-B-101D	Water	02/03/23 13:10	02/03/23 16:23
92650182010	MCD-B-104D	Water	02/03/23 13:10	02/03/23 16:23
92650182011	MCD-B-77	Water	02/06/23 13:55	02/07/23 11:10
92650182012	MCD-B-107D	Water	02/06/23 14:15	02/07/23 11:10
92650182013	MCD-B-109D	Water	02/06/23 11:50	02/07/23 11:10
92650182014	MCD-B-115D	Water	02/06/23 16:24	02/07/23 11:10
92650182015	MCD-B-122D	Water	02/06/23 10:50	02/07/23 11:10
92650182016	MCD-B-56	Water	02/07/23 16:43	02/08/23 13:58
92650182017	MCD-B-66	Water	02/07/23 14:25	02/08/23 13:58
92650182018	MCD-B-82	Water	02/07/23 11:38	02/08/23 13:58
92650182019	MCD-B-88	Water	02/07/23 14:35	02/08/23 13:58
92650182020	MCD-B-106D	Water	02/07/23 15:45	02/08/23 13:58
92650182021	MCD-B-108D	Water	02/07/23 13:03	02/08/23 13:58
92650182022	MCD-B-111D	Water	02/07/23 11:40	02/08/23 13:58
92650182023	MCD-AP234-EB-6	Water	02/07/23 09:00	02/08/23 13:58
92650182024	MCD-AP234-FB-6	Water	02/07/23 12:35	02/08/23 13:58
92650183012	MCD-AP234-FB-3	Water	02/02/23 09:35	02/03/23 16:23

### REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92650182001	MCD-B-92	EPA 6010D	MS	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92650182002	MCD-B-93	EPA 6010D	MS	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92650182003	MCD-B-98	EPA 6010D	MS	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92650182004	MCD-B-97	EPA 6010D	MS	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92650182005	MCD-B-63	EPA 6010D	MS	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92650182006	MCD-B-102D	EPA 6010D	MS	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92650182007	MCD-B-83	EPA 6010D	MS	5

REPORT OF LABORATORY ANALYSIS

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**SAMPLE ANALYTE COUNT**

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92650182008	MCD-B-120D	EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
92650182009	MCD-B-101D	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
92650182010	MCD-B-104D	SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	5
92650182011	MCD-B-77	EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
92650182012	MCD-B-107D	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
92650182013	MCD-B-109D	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1

**REPORT OF LABORATORY ANALYSIS**

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### SAMPLE ANALYTE COUNT

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92650182014	MCD-B-115D	EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
92650182015	MCD-B-122D	SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92650182016	MCD-B-56	EPA 6010D	MS	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	5
		EPA 6020B	CW1	13
92650182017	MCD-B-66	EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
92650182018	MCD-B-82	SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92650182019	MCD-B-88	EPA 6010D	MS	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92650182020	MCD-B-106D	SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
92650182021	MCD-B-108D	SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	5
		EPA 6020B	DRB	13
		EPA 7470A	VB	1
92650182022	MCD-B-111D	SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	5
		EPA 6020B	DRB	13
		EPA 7470A	VB	1
92650182023	MCD-AP234-EB-6	SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	5
		EPA 6020B	DRB	13
		EPA 7470A	VB	1
92650182024	MCD-AP234-FB-6	SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	5
		EPA 6020B	DRB	13
		EPA 7470A	VB	1
92650183012	MCD-AP234-FB-3	SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
		EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Plant McD AP-2, 3/4 Assessment  
Pace Project No.: 92650182

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Lab ID	Sample ID	Method	Analysts	Analytes Reported
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3

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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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**SUMMARY OF DETECTION**

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92650182001</b>	<b>MCD-B-92</b>					
	Performed by	Client			02/14/23 16:37	
	Collected Date	01/31/23			02/14/23 16:37	
	Collected Time	12:25			02/14/23 16:37	
	pH	4.48	Std. Units		02/14/23 16:37	
EPA 6010D	Potassium	6.0	mg/L	0.20	02/17/23 19:55	
EPA 6010D	Sodium	17.6	mg/L	1.0	02/17/23 19:55	
EPA 6010D	Calcium	95.0	mg/L	1.0	02/17/23 19:55	
EPA 6010D	Magnesium	16.6	mg/L	0.050	02/17/23 19:55	
EPA 6020B	Arsenic	0.0023J	mg/L	0.0050	02/20/23 15:13	
EPA 6020B	Barium	0.015	mg/L	0.0050	02/20/23 15:13	
EPA 6020B	Beryllium	0.017	mg/L	0.00050	02/20/23 15:13	
EPA 6020B	Boron	2.6	mg/L	0.040	02/20/23 15:13	
EPA 6020B	Cadmium	0.0015	mg/L	0.00050	02/20/23 15:13	
EPA 6020B	Cobalt	0.080	mg/L	0.0050	02/20/23 15:13	
EPA 6020B	Lithium	0.014J	mg/L	0.030	02/20/23 15:13	
EPA 6020B	Selenium	0.0086	mg/L	0.0050	02/20/23 15:13	
EPA 6020B	Thallium	0.00021J	mg/L	0.0010	02/20/23 15:13	
EPA 7470A	Mercury	0.00017J	mg/L	0.00020	02/28/23 08:10	
SM 2540C-2015	Total Dissolved Solids	688	mg/L	25.0	02/03/23 15:51	
EPA 300.0 Rev 2.1 1993	Chloride	11.4	mg/L	1.0	02/06/23 23:38	
EPA 300.0 Rev 2.1 1993	Fluoride	0.20	mg/L	0.10	02/06/23 23:38	
EPA 300.0 Rev 2.1 1993	Sulfate	393	mg/L	9.0	02/07/23 10:46	
<b>92650182002</b>	<b>MCD-B-93</b>					
	Performed by	Client			02/14/23 16:39	
	Collected Date	01/31/23			02/14/23 16:39	
	Collected Time	14:30			02/14/23 16:39	
	pH	4.68	Std. Units		02/14/23 16:39	
EPA 6010D	Potassium	6.3	mg/L	0.20	02/17/23 20:00	
EPA 6010D	Sodium	22.9	mg/L	1.0	02/17/23 20:00	
EPA 6010D	Calcium	123	mg/L	1.0	02/17/23 20:00	
EPA 6010D	Magnesium	21.8	mg/L	0.050	02/17/23 20:00	
EPA 6020B	Antimony	0.0015J	mg/L	0.0030	02/20/23 15:36	
EPA 6020B	Arsenic	0.0028J	mg/L	0.0050	02/20/23 15:36	
EPA 6020B	Barium	0.015	mg/L	0.0050	02/20/23 15:36	
EPA 6020B	Beryllium	0.016	mg/L	0.00050	02/20/23 15:36	
EPA 6020B	Boron	3.3	mg/L	0.040	02/20/23 15:36	
EPA 6020B	Cadmium	0.00089	mg/L	0.00050	02/20/23 15:36	
EPA 6020B	Cobalt	0.067	mg/L	0.0050	02/20/23 15:36	
EPA 6020B	Lithium	0.011J	mg/L	0.030	02/20/23 15:36	
EPA 6020B	Selenium	0.013	mg/L	0.0050	02/20/23 15:36	
SM 2540C-2015	Total Dissolved Solids	898	mg/L	25.0	02/03/23 15:51	
EPA 300.0 Rev 2.1 1993	Chloride	15.7	mg/L	1.0	02/07/23 00:04	
EPA 300.0 Rev 2.1 1993	Fluoride	0.40	mg/L	0.10	02/07/23 00:04	
EPA 300.0 Rev 2.1 1993	Sulfate	536	mg/L	12.0	02/07/23 11:11	
<b>92650182003</b>	<b>MCD-B-98</b>					
	Performed by	Client			02/14/23 16:40	

**REPORT OF LABORATORY ANALYSIS**

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**SUMMARY OF DETECTION**

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92650182003</b>	<b>MCD-B-98</b>					
	Collected Date	01/31/23			02/14/23 16:40	
	Collected Time	16:35			02/14/23 16:40	
	pH	6.76	Std. Units		02/14/23 16:40	
EPA 6010D	Iron	0.12	mg/L	0.040	02/17/23 20:05	
EPA 6010D	Potassium	5.5	mg/L	0.20	02/17/23 20:05	
EPA 6010D	Sodium	3.1	mg/L	1.0	02/17/23 20:05	
EPA 6010D	Calcium	40.6	mg/L	1.0	02/17/23 20:05	
EPA 6010D	Magnesium	2.7	mg/L	0.050	02/17/23 20:05	
EPA 6020B	Antimony	0.0010J	mg/L	0.0030	02/20/23 15:42	
EPA 6020B	Barium	0.041	mg/L	0.0050	02/20/23 15:42	
EPA 6020B	Boron	0.083	mg/L	0.040	02/20/23 15:42	
EPA 6020B	Chromium	0.0014J	mg/L	0.0050	02/20/23 15:42	
EPA 6020B	Lithium	0.00089J	mg/L	0.030	02/20/23 15:42	
EPA 6020B	Molybdenum	0.0014J	mg/L	0.010	02/20/23 15:42	
SM 2540C-2015	Total Dissolved Solids	147	mg/L	25.0	02/06/23 17:51	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	118	mg/L	5.0	02/04/23 18:12	
SM 2320B-2011	Alkalinity, Total as CaCO3	118	mg/L	5.0	02/04/23 18:12	
EPA 300.0 Rev 2.1 1993	Chloride	2.8	mg/L	1.0	02/07/23 00:30	
EPA 300.0 Rev 2.1 1993	Fluoride	0.19	mg/L	0.10	02/07/23 00:30	
EPA 300.0 Rev 2.1 1993	Sulfate	8.7	mg/L	1.0	02/07/23 00:30	
<b>92650182004</b>	<b>MCD-B-97</b>					
	Performed by	Client			02/14/23 16:42	
	Collected Date	02/01/23			02/14/23 16:42	
	Collected Time	11:25			02/14/23 16:42	
	pH	5.47	Std. Units		02/14/23 16:42	
EPA 6010D	Potassium	5.5	mg/L	0.20	02/17/23 20:10	
EPA 6010D	Sodium	38.1	mg/L	1.0	02/17/23 20:10	
EPA 6010D	Calcium	192	mg/L	1.0	02/17/23 20:10	
EPA 6010D	Magnesium	34.2	mg/L	0.050	02/17/23 20:10	
EPA 6020B	Barium	0.021	mg/L	0.0050	02/20/23 15:48	
EPA 6020B	Beryllium	0.0017	mg/L	0.00050	02/20/23 15:48	
EPA 6020B	Boron	3.7	mg/L	0.040	02/20/23 15:48	
EPA 6020B	Cadmium	0.00063	mg/L	0.00050	02/20/23 15:48	
EPA 6020B	Cobalt	0.0033J	mg/L	0.0050	02/20/23 15:48	
EPA 6020B	Lithium	0.0048J	mg/L	0.030	02/20/23 15:48	
EPA 6020B	Selenium	0.0036J	mg/L	0.0050	02/20/23 15:48	
SM 2540C-2015	Total Dissolved Solids	1170	mg/L	25.0	02/06/23 17:52	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	54.6	mg/L	5.0	02/04/23 18:21	
SM 2320B-2011	Alkalinity, Total as CaCO3	54.6	mg/L	5.0	02/04/23 18:21	
EPA 300.0 Rev 2.1 1993	Chloride	19.4	mg/L	1.0	02/07/23 00:56	
EPA 300.0 Rev 2.1 1993	Fluoride	0.11	mg/L	0.10	02/07/23 00:56	
EPA 300.0 Rev 2.1 1993	Sulfate	648	mg/L	14.0	02/07/23 11:37	
<b>92650182005</b>	<b>MCD-B-63</b>					
	Performed by	Client			02/14/23 16:45	
	Collected Date	02/02/23			02/14/23 16:45	
	Collected Time	13:25			02/14/23 16:45	

**REPORT OF LABORATORY ANALYSIS**

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**SUMMARY OF DETECTION**

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92650182005</b>	<b>MCD-B-63</b>					
	pH	5.85	Std. Units		02/14/23 16:45	
EPA 6010D	Iron	8.3	mg/L	0.040	02/17/23 20:15	M1
EPA 6010D	Potassium	2.8	mg/L	0.20	02/17/23 20:15	
EPA 6010D	Sodium	11.0	mg/L	1.0	02/17/23 20:15	M1
EPA 6010D	Calcium	21.2	mg/L	1.0	02/17/23 20:15	M1
EPA 6010D	Magnesium	8.0	mg/L	0.050	02/17/23 20:15	M1
EPA 6020B	Barium	0.056	mg/L	0.0050	02/20/23 15:54	
EPA 6020B	Beryllium	0.00028J	mg/L	0.00050	02/20/23 15:54	
EPA 6020B	Boron	0.47	mg/L	0.040	02/20/23 15:54	
EPA 6020B	Cobalt	0.027	mg/L	0.0050	02/20/23 15:54	
EPA 6020B	Lithium	0.0045J	mg/L	0.030	02/20/23 15:54	
SM 2540C-2015	Total Dissolved Solids	198	mg/L	25.0	02/07/23 18:41	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	82.9	mg/L	5.0	02/08/23 13:11	
SM 2320B-2011	Alkalinity, Total as CaCO3	82.9	mg/L	5.0	02/08/23 13:11	
EPA 300.0 Rev 2.1 1993	Chloride	7.0	mg/L	1.0	02/08/23 04:23	
EPA 300.0 Rev 2.1 1993	Fluoride	0.13	mg/L	0.10	02/08/23 04:23	
EPA 300.0 Rev 2.1 1993	Sulfate	50.1	mg/L	1.0	02/08/23 04:23	
<b>92650182006</b>	<b>MCD-B-102D</b>					
	Performed by	Client			02/14/23 16:46	
	Collected Date	02/02/23			02/14/23 16:46	
	Collected Time	12:10			02/14/23 16:46	
	pH	5.47	Std. Units		02/14/23 16:46	
EPA 6010D	Iron	0.061	mg/L	0.040	02/17/23 20:34	
EPA 6010D	Potassium	6.1	mg/L	0.20	02/17/23 20:34	
EPA 6010D	Sodium	17.3	mg/L	1.0	02/17/23 20:34	
EPA 6010D	Calcium	68.0	mg/L	1.0	02/17/23 20:34	
EPA 6010D	Magnesium	15.7	mg/L	0.050	02/17/23 20:34	
EPA 6020B	Barium	0.020	mg/L	0.0050	02/20/23 16:30	
EPA 6020B	Beryllium	0.00091	mg/L	0.00050	02/20/23 16:30	
EPA 6020B	Boron	2.2	mg/L	0.040	02/20/23 16:30	
EPA 6020B	Cadmium	0.00087	mg/L	0.00050	02/20/23 16:30	
EPA 6020B	Cobalt	0.011	mg/L	0.0050	02/20/23 16:30	
EPA 6020B	Lithium	0.011J	mg/L	0.030	02/20/23 16:30	
SM 2540C-2015	Total Dissolved Solids	466	mg/L	25.0	02/07/23 18:41	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	12.6	mg/L	5.0	02/08/23 13:31	
SM 2320B-2011	Alkalinity, Total as CaCO3	12.6	mg/L	5.0	02/08/23 13:31	
EPA 300.0 Rev 2.1 1993	Chloride	10.8	mg/L	1.0	02/08/23 04:39	
EPA 300.0 Rev 2.1 1993	Fluoride	0.091J	mg/L	0.10	02/08/23 04:39	
EPA 300.0 Rev 2.1 1993	Sulfate	252	mg/L	5.0	02/08/23 12:03	M1
<b>92650182007</b>	<b>MCD-B-83</b>					
	Performed by	Client			02/14/23 16:46	
	Collected Date	02/03/23			02/14/23 16:46	
	Collected Time	12:20			02/14/23 16:46	
	pH	5.59	Std. Units		02/14/23 16:46	
EPA 6010D	Potassium	2.3	mg/L	0.20	02/17/23 20:39	
EPA 6010D	Sodium	9.7	mg/L	1.0	02/17/23 20:39	

**REPORT OF LABORATORY ANALYSIS**

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### SUMMARY OF DETECTION

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92650182007</b>	<b>MCD-B-83</b>					
EPA 6010D	Calcium	31.4	mg/L	1.0	02/17/23 20:39	
EPA 6010D	Magnesium	9.1	mg/L	0.050	02/17/23 20:39	
EPA 6020B	Barium	0.024	mg/L	0.0050	02/20/23 16:36	
EPA 6020B	Beryllium	0.00038J	mg/L	0.00050	02/20/23 16:36	
EPA 6020B	Boron	0.31	mg/L	0.040	02/20/23 16:36	
EPA 6020B	Cadmium	0.00030J	mg/L	0.00050	02/20/23 16:36	
EPA 6020B	Chromium	0.0026J	mg/L	0.0050	02/20/23 16:36	
EPA 6020B	Cobalt	0.012	mg/L	0.0050	02/20/23 16:36	
EPA 6020B	Lithium	0.0025J	mg/L	0.030	02/20/23 16:36	
EPA 6020B	Selenium	0.021	mg/L	0.0050	02/20/23 16:36	
SM 2540C-2015	Total Dissolved Solids	214	mg/L	25.0	02/07/23 13:19	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	31.4	mg/L	5.0	02/08/23 16:12	
SM 2320B-2011	Alkalinity, Total as CaCO3	31.4	mg/L	5.0	02/08/23 16:12	
EPA 300.0 Rev 2.1 1993	Chloride	2.5	mg/L	1.0	02/08/23 05:27	
EPA 300.0 Rev 2.1 1993	Fluoride	0.12	mg/L	0.10	02/08/23 05:27	
EPA 300.0 Rev 2.1 1993	Sulfate	106	mg/L	2.0	02/08/23 12:51	
<b>92650182008</b>	<b>MCD-B-120D</b>					
	Performed by	Client			02/14/23 16:47	
	Collected Date	02/03/23			02/14/23 16:47	
	Collected Time	11:05			02/14/23 16:47	
	pH	5.59	Std. Units		02/14/23 16:47	
EPA 6010D	Iron	0.051	mg/L	0.040	02/17/23 20:53	
EPA 6010D	Potassium	8.5	mg/L	0.20	02/17/23 20:53	
EPA 6010D	Sodium	29.0	mg/L	1.0	02/17/23 20:53	
EPA 6010D	Calcium	121	mg/L	1.0	02/17/23 20:53	
EPA 6010D	Magnesium	28.0	mg/L	0.050	02/17/23 20:53	
EPA 6020B	Barium	0.021	mg/L	0.0050	02/20/23 16:42	
EPA 6020B	Beryllium	0.0010	mg/L	0.00050	02/20/23 16:42	
EPA 6020B	Boron	1.5	mg/L	0.040	02/20/23 16:42	
EPA 6020B	Cadmium	0.0011	mg/L	0.00050	02/20/23 16:42	
EPA 6020B	Cobalt	0.0025J	mg/L	0.0050	02/20/23 16:42	
EPA 6020B	Lithium	0.068	mg/L	0.030	02/20/23 16:42	
EPA 6020B	Selenium	0.0050J	mg/L	0.0050	02/20/23 16:42	
SM 2540C-2015	Total Dissolved Solids	803	mg/L	25.0	02/07/23 13:20	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	27.0	mg/L	5.0	02/08/23 16:19	
SM 2320B-2011	Alkalinity, Total as CaCO3	27.0	mg/L	5.0	02/08/23 16:19	
EPA 300.0 Rev 2.1 1993	Chloride	6.1	mg/L	1.0	02/08/23 05:43	
EPA 300.0 Rev 2.1 1993	Fluoride	0.052J	mg/L	0.10	02/08/23 05:43	
EPA 300.0 Rev 2.1 1993	Sulfate	464	mg/L	10.0	02/08/23 13:06	
<b>92650182009</b>	<b>MCD-B-101D</b>					
	Performed by	Client			02/14/23 16:48	
	Collected Date	02/03/23			02/14/23 16:48	
	Collected Time	13:15			02/14/23 16:48	
	pH	5.95	Std. Units		02/14/23 16:48	
EPA 6010D	Iron	0.28	mg/L	0.040	02/17/23 20:58	
EPA 6010D	Potassium	5.3	mg/L	0.20	02/17/23 20:58	

### REPORT OF LABORATORY ANALYSIS

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**SUMMARY OF DETECTION**

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92650182009</b>	<b>MCD-B-101D</b>					
EPA 6010D	Sodium	16.2	mg/L	1.0	02/17/23 20:58	
EPA 6010D	Calcium	41.8	mg/L	1.0	02/17/23 20:58	
EPA 6010D	Magnesium	15.8	mg/L	0.050	02/17/23 20:58	
EPA 6020B	Barium	0.048	mg/L	0.0050	02/20/23 16:47	
EPA 6020B	Beryllium	0.000063J	mg/L	0.00050	02/20/23 16:47	
EPA 6020B	Boron	1.1	mg/L	0.040	02/20/23 16:47	
EPA 6020B	Cobalt	0.0022J	mg/L	0.0050	02/20/23 16:47	
EPA 6020B	Lithium	0.0080J	mg/L	0.030	02/20/23 16:47	
EPA 7470A	Mercury	0.00029	mg/L	0.00020	02/24/23 07:39	
SM 2540C-2015	Total Dissolved Solids	313	mg/L	25.0	02/07/23 13:20	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	35.0	mg/L	5.0	02/08/23 16:26	
SM 2320B-2011	Alkalinity, Total as CaCO3	35.0	mg/L	5.0	02/08/23 16:26	
EPA 300.0 Rev 2.1 1993	Chloride	9.1	mg/L	1.0	02/08/23 05:59	
EPA 300.0 Rev 2.1 1993	Fluoride	0.11	mg/L	0.10	02/08/23 05:59	
EPA 300.0 Rev 2.1 1993	Sulfate	159	mg/L	3.0	02/08/23 13:54	
<b>92650182010</b>	<b>MCD-B-104D</b>					
	Performed by	Client			02/14/23 16:48	
	Collected Date	02/03/23			02/14/23 16:48	
	Collected Time	13:15			02/14/23 16:48	
	pH	6.17	Std. Units		02/14/23 16:48	
EPA 6010D	Iron	10.3	mg/L	0.040	02/17/23 21:03	
EPA 6010D	Potassium	7.8	mg/L	0.20	02/17/23 21:03	
EPA 6010D	Sodium	17.7	mg/L	1.0	02/17/23 21:03	
EPA 6010D	Calcium	142	mg/L	1.0	02/17/23 21:03	
EPA 6010D	Magnesium	27.0	mg/L	0.050	02/17/23 21:03	
EPA 6020B	Barium	0.017	mg/L	0.0050	02/20/23 16:53	
EPA 6020B	Beryllium	0.0016	mg/L	0.00050	02/20/23 16:53	
EPA 6020B	Boron	0.26	mg/L	0.040	02/20/23 16:53	
EPA 6020B	Cobalt	0.17	mg/L	0.0050	02/20/23 16:53	
EPA 6020B	Lithium	0.037	mg/L	0.030	02/20/23 16:53	
EPA 6020B	Selenium	0.0018J	mg/L	0.0050	02/20/23 16:53	
SM 2540C-2015	Total Dissolved Solids	842	mg/L	25.0	02/07/23 13:20	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	62.0	mg/L	5.0	02/08/23 16:32	
SM 2320B-2011	Alkalinity, Total as CaCO3	62.0	mg/L	5.0	02/08/23 16:32	
EPA 300.0 Rev 2.1 1993	Chloride	7.8	mg/L	1.0	02/08/23 06:15	
EPA 300.0 Rev 2.1 1993	Fluoride	0.36	mg/L	0.10	02/08/23 06:15	
EPA 300.0 Rev 2.1 1993	Sulfate	495	mg/L	11.0	02/08/23 14:10	
<b>92650182011</b>	<b>MCD-B-77</b>					
	Performed by	Client			02/14/23 16:50	
	Collected Date	02/06/23			02/14/23 16:50	
	Collected Time	14:00			02/14/23 16:50	
	pH	6.53	Std. Units		02/14/23 16:50	
EPA 6010D	Iron	38.8	mg/L	0.040	02/17/23 21:08	
EPA 6010D	Potassium	1.9	mg/L	0.20	02/17/23 21:08	
EPA 6010D	Sodium	6.0	mg/L	1.0	02/17/23 21:08	
EPA 6010D	Calcium	14.8	mg/L	1.0	02/17/23 21:08	

**REPORT OF LABORATORY ANALYSIS**

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### SUMMARY OF DETECTION

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92650182011</b>	<b>MCD-B-77</b>					
EPA 6010D	Magnesium	5.4	mg/L	0.050	02/17/23 21:08	
EPA 6020B	Barium	0.11	mg/L	0.0050	02/20/23 16:59	
EPA 6020B	Boron	0.31	mg/L	0.040	02/20/23 16:59	
SM 2540C-2015	Total Dissolved Solids	92.0	mg/L	25.0	02/08/23 18:55	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	114	mg/L	5.0	02/09/23 23:00	
SM 2320B-2011	Alkalinity, Total as CaCO3	114	mg/L	5.0	02/09/23 23:00	
EPA 300.0 Rev 2.1 1993	Chloride	3.5	mg/L	1.0	02/09/23 15:22	
EPA 300.0 Rev 2.1 1993	Fluoride	0.069J	mg/L	0.10	02/09/23 15:22	
EPA 300.0 Rev 2.1 1993	Sulfate	1.8	mg/L	1.0	02/09/23 15:22	
<b>92650182012</b>	<b>MCD-B-107D</b>					
	Performed by	Client			02/14/23 16:51	
	Collected Date	02/06/23			02/14/23 16:51	
	Collected Time	14:20			02/14/23 16:51	
	pH	5.90	Std. Units		02/14/23 16:51	
EPA 6010D	Iron	0.41	mg/L	0.040	02/17/23 21:12	
EPA 6010D	Potassium	5.8	mg/L	0.20	02/17/23 21:12	
EPA 6010D	Sodium	17.7	mg/L	1.0	02/17/23 21:12	
EPA 6010D	Calcium	76.0	mg/L	1.0	02/17/23 21:12	
EPA 6010D	Magnesium	29.6	mg/L	0.050	02/17/23 21:12	
EPA 6020B	Barium	0.049	mg/L	0.0050	02/20/23 17:05	
EPA 6020B	Boron	10	mg/L	0.040	02/20/23 17:05	
EPA 6020B	Cobalt	0.00070J	mg/L	0.0050	02/20/23 17:05	
EPA 6020B	Lithium	0.014J	mg/L	0.030	02/20/23 17:05	
SM 2540C-2015	Total Dissolved Solids	608	mg/L	25.0	02/08/23 18:55	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	28.7	mg/L	5.0	02/09/23 23:11	
SM 2320B-2011	Alkalinity, Total as CaCO3	28.7	mg/L	5.0	02/09/23 23:11	
EPA 300.0 Rev 2.1 1993	Chloride	13.6	mg/L	1.0	02/09/23 15:36	
EPA 300.0 Rev 2.1 1993	Sulfate	299	mg/L	6.0	02/10/23 00:57	
<b>92650182013</b>	<b>MCD-B-109D</b>					
	Performed by	Client			02/14/23 16:52	
	Collected Date	02/06/23			02/14/23 16:52	
	Collected Time	11:55			02/14/23 16:52	
	pH	6.44	Std. Units		02/14/23 16:52	
EPA 6010D	Iron	13.2	mg/L	0.040	02/17/23 21:17	
EPA 6010D	Potassium	7.2	mg/L	0.20	02/17/23 21:17	
EPA 6010D	Sodium	20.7	mg/L	1.0	02/17/23 21:17	
EPA 6010D	Calcium	37.6	mg/L	1.0	02/17/23 21:17	
EPA 6010D	Magnesium	11.4	mg/L	0.050	02/17/23 21:17	
EPA 6020B	Barium	0.057	mg/L	0.0050	02/20/23 17:11	
EPA 6020B	Beryllium	0.000073J	mg/L	0.00050	02/20/23 17:11	
EPA 6020B	Boron	0.67	mg/L	0.040	02/20/23 17:11	
EPA 6020B	Lithium	0.012J	mg/L	0.030	02/20/23 17:11	
EPA 6020B	Molybdenum	0.0014J	mg/L	0.010	02/20/23 17:11	
SM 2540C-2015	Total Dissolved Solids	416	mg/L	25.0	02/08/23 18:55	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	88.2	mg/L	5.0	02/14/23 18:20	
SM 2320B-2011	Alkalinity, Total as CaCO3	88.2	mg/L	5.0	02/14/23 18:20	

### REPORT OF LABORATORY ANALYSIS

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**SUMMARY OF DETECTION**

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92650182013</b>	<b>MCD-B-109D</b>					
EPA 300.0 Rev 2.1 1993	Chloride	3.5	mg/L	1.0	02/09/23 15:51	
EPA 300.0 Rev 2.1 1993	Fluoride	0.14	mg/L	0.10	02/09/23 15:51	
EPA 300.0 Rev 2.1 1993	Sulfate	111	mg/L	2.0	02/10/23 01:12	
<b>92650182014</b>	<b>MCD-B-115D</b>					
	Performed by	Client			02/14/23 16:53	
	Collected Date	02/06/23			02/14/23 16:53	
	Collected Time	16:29			02/14/23 16:53	
	pH	4.90	Std. Units		02/14/23 16:53	
EPA 6010D	Iron	0.17	mg/L	0.040	02/17/23 21:22	
EPA 6010D	Potassium	16.6	mg/L	0.20	02/17/23 21:22	
EPA 6010D	Sodium	30.4	mg/L	1.0	02/17/23 21:22	
EPA 6010D	Calcium	54.4	mg/L	1.0	02/17/23 21:22	
EPA 6010D	Magnesium	17.4	mg/L	0.050	02/17/23 21:22	
EPA 6020B	Barium	0.017	mg/L	0.0050	02/20/23 17:17	
EPA 6020B	Beryllium	0.011	mg/L	0.00050	02/20/23 17:17	
EPA 6020B	Boron	0.65	mg/L	0.040	02/20/23 17:17	
EPA 6020B	Cadmium	0.00049J	mg/L	0.00050	02/20/23 17:17	
EPA 6020B	Cobalt	0.27	mg/L	0.0050	02/20/23 17:17	
EPA 6020B	Lithium	0.082	mg/L	0.030	02/20/23 17:17	
EPA 6020B	Selenium	0.0051	mg/L	0.0050	02/20/23 17:17	
SM 2540C-2015	Total Dissolved Solids	550	mg/L	25.0	02/08/23 18:55	
EPA 300.0 Rev 2.1 1993	Chloride	19.9	mg/L	1.0	02/09/23 16:05	
EPA 300.0 Rev 2.1 1993	Fluoride	0.85	mg/L	0.10	02/09/23 16:05	
EPA 300.0 Rev 2.1 1993	Sulfate	296	mg/L	6.0	02/10/23 01:26	M1
<b>92650182015</b>	<b>MCD-B-122D</b>					
	Performed by	Client			02/14/23 16:55	
	Collected Date	02/06/23			02/14/23 16:55	
	Collected Time	10:55			02/14/23 16:55	
	pH	6.08	Std. Units		02/14/23 16:55	
EPA 6010D	Iron	11.4	mg/L	0.040	02/17/23 21:27	
EPA 6010D	Potassium	3.5	mg/L	0.20	02/17/23 21:27	
EPA 6010D	Sodium	25.6	mg/L	1.0	02/17/23 21:27	
EPA 6010D	Calcium	47.3	mg/L	1.0	02/17/23 21:27	
EPA 6010D	Magnesium	9.5	mg/L	0.050	02/17/23 21:27	
EPA 6020B	Barium	0.040	mg/L	0.0050	02/20/23 17:23	
EPA 6020B	Beryllium	0.00034J	mg/L	0.00050	02/20/23 17:23	
EPA 6020B	Boron	0.26	mg/L	0.040	02/20/23 17:23	
EPA 6020B	Cobalt	0.0070	mg/L	0.0050	02/20/23 17:23	
EPA 6020B	Lithium	0.014J	mg/L	0.030	02/20/23 17:23	
EPA 6020B	Molybdenum	0.0011J	mg/L	0.010	02/20/23 17:23	
SM 2540C-2015	Total Dissolved Solids	392	mg/L	25.0	02/08/23 18:56	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	112	mg/L	5.0	02/10/23 08:24	
SM 2320B-2011	Alkalinity, Total as CaCO3	112	mg/L	5.0	02/10/23 08:24	
EPA 300.0 Rev 2.1 1993	Chloride	15.4	mg/L	1.0	02/09/23 16:48	
EPA 300.0 Rev 2.1 1993	Fluoride	0.21	mg/L	0.10	02/09/23 16:48	
EPA 300.0 Rev 2.1 1993	Sulfate	108	mg/L	2.0	02/10/23 02:09	

**REPORT OF LABORATORY ANALYSIS**

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**SUMMARY OF DETECTION**

Project: Plant McD AP-2, 3/4 Assessment  
 Pace Project No.: 92650182

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92650182016</b>	<b>MCD-B-56</b>					
	Performed by	Client			02/14/23 16:59	
	Collected Date	02/07/23			02/14/23 16:59	
	Collected Time	16:48			02/14/23 16:59	
	pH	4.55	Std. Units		02/14/23 16:59	
EPA 6010D	Iron	0.071	mg/L	0.040	02/17/23 21:32	
EPA 6010D	Potassium	5.2	mg/L	0.20	02/17/23 21:32	
EPA 6010D	Sodium	21.0	mg/L	1.0	02/17/23 21:32	
EPA 6010D	Calcium	20.1	mg/L	1.0	02/17/23 21:32	
EPA 6010D	Magnesium	35.6	mg/L	0.050	02/17/23 21:32	
EPA 6020B	Arsenic	0.0050J	mg/L	0.0050	02/20/23 17:41	
EPA 6020B	Barium	0.027	mg/L	0.0050	02/20/23 17:41	
EPA 6020B	Beryllium	0.0012	mg/L	0.00050	02/20/23 17:41	
EPA 6020B	Boron	1.5	mg/L	0.040	02/20/23 17:41	
EPA 6020B	Cadmium	0.00036J	mg/L	0.00050	02/20/23 17:41	
EPA 6020B	Cobalt	0.059	mg/L	0.0050	02/20/23 17:41	
EPA 6020B	Lithium	0.0054J	mg/L	0.030	02/20/23 17:41	
EPA 6020B	Selenium	0.010	mg/L	0.0050	02/20/23 17:41	
EPA 6020B	Thallium	0.00028J	mg/L	0.0010	02/20/23 17:41	
EPA 7470A	Mercury	0.00034	mg/L	0.00020	02/24/23 08:03	
SM 2540C-2015	Total Dissolved Solids	379	mg/L	25.0	02/13/23 11:02	
EPA 300.0 Rev 2.1 1993	Chloride	6.9	mg/L	1.0	02/11/23 01:13	
EPA 300.0 Rev 2.1 1993	Fluoride	0.19	mg/L	0.10	02/11/23 01:13	
EPA 300.0 Rev 2.1 1993	Sulfate	247	mg/L	5.0	02/11/23 07:08	
<b>92650182017</b>	<b>MCD-B-66</b>					
	Performed by	Client			02/14/23 17:02	
	Collected Date	02/07/23			02/14/23 17:02	
	Collected Time	14:30			02/14/23 17:02	
	pH	6.22	Std. Units		02/14/23 17:02	
EPA 6010D	Iron	1.6	mg/L	0.040	02/17/23 21:37	
EPA 6010D	Potassium	4.9	mg/L	0.20	02/17/23 21:37	
EPA 6010D	Sodium	28.3	mg/L	1.0	02/17/23 21:37	
EPA 6010D	Calcium	45.3	mg/L	1.0	02/17/23 21:37	
EPA 6010D	Magnesium	40.5	mg/L	0.050	02/17/23 21:37	
EPA 6020B	Barium	0.023	mg/L	0.0050	02/20/23 17:47	
EPA 6020B	Boron	2.1	mg/L	0.040	02/20/23 17:47	
EPA 6020B	Cobalt	0.015	mg/L	0.0050	02/20/23 17:47	
EPA 7470A	Mercury	0.00029	mg/L	0.00020	02/24/23 08:05	
SM 2540C-2015	Total Dissolved Solids	497	mg/L	25.0	02/13/23 11:02	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	76.0	mg/L	5.0	02/15/23 20:01	
SM 2320B-2011	Alkalinity, Total as CaCO3	76.0	mg/L	5.0	02/15/23 20:01	
EPA 300.0 Rev 2.1 1993	Chloride	8.7	mg/L	1.0	02/11/23 01:28	
EPA 300.0 Rev 2.1 1993	Fluoride	0.12	mg/L	0.10	02/11/23 01:28	
EPA 300.0 Rev 2.1 1993	Sulfate	276	mg/L	5.0	02/11/23 07:23	
<b>92650182018</b>	<b>MCD-B-82</b>					
	Performed by	Client			02/14/23 17:04	
	Collected Date	02/07/23			02/14/23 17:04	

**REPORT OF LABORATORY ANALYSIS**

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### SUMMARY OF DETECTION

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92650182018</b>	<b>MCD-B-82</b>					
	Collected Time	11:43			02/14/23 17:04	
	pH	5.28	Std. Units		02/14/23 17:04	
EPA 6010D	Iron	0.12	mg/L	0.040	02/17/23 21:51	
EPA 6010D	Sodium	15.8	mg/L	1.0	02/17/23 21:51	
EPA 6010D	Calcium	37.0	mg/L	1.0	02/17/23 21:51	
EPA 6010D	Magnesium	74.3	mg/L	0.050	02/17/23 21:51	
EPA 6010D	Potassium	5.6	mg/L	0.20	02/20/23 15:35	
EPA 6020B	Arsenic	0.0040J	mg/L	0.0050	02/20/23 17:53	
EPA 6020B	Barium	0.023	mg/L	0.0050	02/20/23 17:53	
EPA 6020B	Beryllium	0.0018	mg/L	0.00050	02/20/23 17:53	
EPA 6020B	Boron	0.53	mg/L	0.040	02/20/23 17:53	
EPA 6020B	Cadmium	0.00081	mg/L	0.00050	02/20/23 17:53	
EPA 6020B	Chromium	0.0013J	mg/L	0.0050	02/20/23 17:53	
EPA 6020B	Cobalt	0.0028J	mg/L	0.0050	02/20/23 17:53	
EPA 6020B	Lithium	0.00073J	mg/L	0.030	02/20/23 17:53	
EPA 6020B	Selenium	0.0025J	mg/L	0.0050	02/20/23 17:53	
SM 2540C-2015	Total Dissolved Solids	611	mg/L	25.0	02/13/23 11:04	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	11.6	mg/L	5.0	02/15/23 20:09	
SM 2320B-2011	Alkalinity, Total as CaCO3	11.6	mg/L	5.0	02/15/23 20:09	
EPA 300.0 Rev 2.1 1993	Chloride	12.1	mg/L	1.0	02/11/23 02:27	
EPA 300.0 Rev 2.1 1993	Fluoride	0.086J	mg/L	0.10	02/11/23 02:27	
EPA 300.0 Rev 2.1 1993	Sulfate	402	mg/L	8.0	02/11/23 07:37	
<b>92650182019</b>	<b>MCD-B-88</b>					
	Performed by	Client			02/14/23 17:06	
	Collected Date	02/0723			02/14/23 17:06	
	Collected Time	14:40			02/14/23 17:06	
	pH	5.59	Std. Units		02/14/23 17:06	
EPA 6010D	Iron	0.095	mg/L	0.040	02/17/23 21:56	
EPA 6010D	Sodium	25.0	mg/L	1.0	02/17/23 21:56	
EPA 6010D	Calcium	92.4	mg/L	1.0	02/17/23 21:56	
EPA 6010D	Magnesium	33.6	mg/L	0.050	02/17/23 21:56	
EPA 6010D	Potassium	9.2	mg/L	0.20	02/20/23 15:40	
EPA 6020B	Barium	0.017	mg/L	0.0050	02/20/23 17:59	
EPA 6020B	Beryllium	0.0016	mg/L	0.00050	02/20/23 17:59	
EPA 6020B	Boron	2.3	mg/L	0.040	02/20/23 17:59	
EPA 6020B	Cadmium	0.0033	mg/L	0.00050	02/20/23 17:59	
EPA 6020B	Cobalt	0.0031J	mg/L	0.0050	02/20/23 17:59	
EPA 6020B	Lithium	0.0071J	mg/L	0.030	02/20/23 17:59	
EPA 6020B	Selenium	0.0024J	mg/L	0.0050	02/20/23 17:59	
SM 2540C-2015	Total Dissolved Solids	685	mg/L	25.0	02/13/23 11:04	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	12.5	mg/L	5.0	02/15/23 20:14	
SM 2320B-2011	Alkalinity, Total as CaCO3	12.5	mg/L	5.0	02/15/23 20:14	
EPA 300.0 Rev 2.1 1993	Chloride	8.4	mg/L	1.0	02/11/23 02:42	
EPA 300.0 Rev 2.1 1993	Sulfate	435	mg/L	9.0	02/11/23 08:37	
<b>92650182020</b>	<b>MCD-B-106D</b>					
	Performed by	Client			02/14/23 17:08	

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**SUMMARY OF DETECTION**

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92650182020</b>	<b>MCD-B-106D</b>					
	Collected Date	02/07/23			02/14/23 17:08	
	Collected Time	15:50			02/14/23 17:08	
	pH	5.86	Std. Units		02/14/23 17:08	
EPA 6010D	Potassium	3.4	mg/L	0.20	02/20/23 15:45	
EPA 6010D	Iron	0.026J	mg/L	0.040	02/17/23 22:01	
EPA 6010D	Sodium	13.0	mg/L	1.0	02/17/23 22:01	
EPA 6010D	Calcium	30.7	mg/L	1.0	02/17/23 22:01	
EPA 6010D	Magnesium	15.0	mg/L	0.050	02/17/23 22:01	
EPA 6020B	Barium	0.022	mg/L	0.0050	02/20/23 18:11	
EPA 6020B	Beryllium	0.000084J	mg/L	0.00050	02/20/23 18:11	
EPA 6020B	Boron	0.95	mg/L	0.040	02/20/23 18:11	
EPA 6020B	Chromium	0.0013J	mg/L	0.0050	02/20/23 18:11	
EPA 6020B	Lithium	0.0053J	mg/L	0.030	02/20/23 18:11	
SM 2540C-2015	Total Dissolved Solids	246	mg/L	25.0	02/13/23 11:04	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	30.7	mg/L	5.0	02/15/23 20:20	
SM 2320B-2011	Alkalinity, Total as CaCO3	30.7	mg/L	5.0	02/15/23 20:20	
EPA 300.0 Rev 2.1 1993	Chloride	6.8	mg/L	1.0	02/11/23 02:57	
EPA 300.0 Rev 2.1 1993	Fluoride	0.067J	mg/L	0.10	02/11/23 02:57	
EPA 300.0 Rev 2.1 1993	Sulfate	127	mg/L	2.0	02/11/23 09:06	
<b>92650182021</b>	<b>MCD-B-108D</b>					
	Performed by	Client			02/14/23 17:12	
	Collected Date	02/07/23			02/14/23 17:12	
	Collected Time	13:08			02/14/23 17:12	
	pH	5.92	Std. Units		02/14/23 17:12	
EPA 6010D	Iron	0.37	mg/L	0.040	02/20/23 19:55	
EPA 6010D	Potassium	5.2	mg/L	0.20	02/20/23 19:55	
EPA 6010D	Sodium	17.1	mg/L	1.0	02/20/23 19:55	
EPA 6010D	Calcium	83.1	mg/L	1.0	02/20/23 19:55	
EPA 6010D	Magnesium	32.3	mg/L	0.050	02/20/23 19:55	
EPA 6020B	Barium	0.051	mg/L	0.0050	02/22/23 19:45	
EPA 6020B	Boron	6.4	mg/L	0.040	02/22/23 19:45	
EPA 6020B	Cobalt	0.0010J	mg/L	0.0050	02/22/23 19:45	
EPA 6020B	Lithium	0.014J	mg/L	0.030	02/22/23 19:45	
SM 2540C-2015	Total Dissolved Solids	563	mg/L	25.0	02/13/23 11:04	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	26.1	mg/L	5.0	02/15/23 20:26	
SM 2320B-2011	Alkalinity, Total as CaCO3	26.1	mg/L	5.0	02/15/23 20:26	
EPA 300.0 Rev 2.1 1993	Chloride	27.6	mg/L	1.0	02/11/23 03:12	
EPA 300.0 Rev 2.1 1993	Sulfate	313	mg/L	6.0	02/11/23 09:21	
<b>92650182022</b>	<b>MCD-B-111D</b>					
	Performed by	Client			02/14/23 17:12	
	Collected Date	02/07/23			02/14/23 17:12	
	Collected Time	11:45			02/14/23 17:12	
	pH	7.30	Std. Units		02/14/23 17:12	
EPA 6010D	Iron	2.0	mg/L	0.040	02/20/23 19:59	
EPA 6010D	Potassium	5.6	mg/L	0.20	02/20/23 19:59	
EPA 6010D	Sodium	39.6	mg/L	1.0	02/20/23 19:59	

**REPORT OF LABORATORY ANALYSIS**

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### SUMMARY OF DETECTION

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92650182022</b>	<b>MCD-B-111D</b>					
EPA 6010D	Calcium	91.5	mg/L	1.0	02/20/23 19:59	
EPA 6010D	Magnesium	8.5	mg/L	0.050	02/20/23 19:59	
EPA 6020B	Barium	0.028	mg/L	0.0050	02/22/23 19:51	
EPA 6020B	Boron	0.16	mg/L	0.040	02/22/23 19:51	
EPA 6020B	Cobalt	0.00040J	mg/L	0.0050	02/22/23 19:51	
EPA 6020B	Lithium	0.018J	mg/L	0.030	02/22/23 19:51	
EPA 6020B	Molybdenum	0.0077J	mg/L	0.010	02/22/23 19:51	
SM 2540C-2015	Total Dissolved Solids	489	mg/L	25.0	02/13/23 11:04	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	109	mg/L	5.0	02/15/23 20:32	
SM 2320B-2011	Alkalinity, Total as CaCO3	109	mg/L	5.0	02/15/23 20:32	
EPA 300.0 Rev 2.1 1993	Chloride	9.9	mg/L	1.0	02/11/23 03:27	
EPA 300.0 Rev 2.1 1993	Fluoride	0.36	mg/L	0.10	02/11/23 03:27	
EPA 300.0 Rev 2.1 1993	Sulfate	229	mg/L	4.0	02/11/23 09:36	
<b>92650182023</b>	<b>MCD-AP234-EB-6</b>					
EPA 6020B	Chromium	0.0012J	mg/L	0.0050	02/22/23 19:57	
<b>92650183012</b>	<b>MCD-AP234-FB-3</b>					
EPA 6020B	Boron	0.028J	mg/L	0.040	02/16/23 15:39	

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## PROJECT NARRATIVE

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

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**Date:** July 28, 2023

Georgia Power EQulS Database Manager requested Pace Project Manager remove the sample matrix and date from the Sample IDs. This update ensures sample nomenclature is followed on final PDF and EDD for successful upload of laboratory data into the Georgia Power EQulS database.

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Plant McD AP-2, 3/4 Assessment  
Pace Project No.: 92650182

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**Method:** EPA 6010D  
**Description:** 6010D ATL ICP  
**Client:** Georgia Power  
**Date:** July 28, 2023

### General Information:

25 samples were analyzed for EPA 6010D by Pace Analytical Services Peachtree Corners, GA. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Sample Preparation:

The samples were prepared in accordance with EPA 3010A with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 755832

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92650180001

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

- MS (Lab ID: 3927043)
  - Calcium
  - Magnesium
  - Sodium
- MSD (Lab ID: 3927044)
  - Potassium

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## PROJECT NARRATIVE

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

---

**Method:** EPA 6010D

**Description:** 6010D ATL ICP

**Client:** Georgia Power

**Date:** July 28, 2023

QC Batch: 756678

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92650182005

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

- MS (Lab ID: 3931299)
  - Calcium
  - Iron
  - Magnesium
  - Sodium
- MSD (Lab ID: 3931300)
  - Calcium
  - Iron
  - Sodium

QC Batch: 756896

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92650181022

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

- MS (Lab ID: 3932255)
  - Calcium
  - Iron
  - Magnesium
- MSD (Lab ID: 3932256)
  - Calcium
  - Iron
  - Magnesium
  - Potassium

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Plant McD AP-2, 3/4 Assessment  
Pace Project No.: 92650182

---

**Method:** EPA 6020B  
**Description:** 6020 MET ICPMS  
**Client:** Georgia Power  
**Date:** July 28, 2023

**General Information:**

25 samples were analyzed for EPA 6020B by Pace Analytical Services Peachtree Corners, GA. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**

The samples were prepared in accordance with EPA 3005A with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Internal Standards:**

All internal standards were within QC limits with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

---

**Method:** EPA 7470A

**Description:** 7470 Mercury

**Client:** Georgia Power

**Date:** July 28, 2023

**General Information:**

25 samples were analyzed for EPA 7470A by Pace Analytical Services Peachtree Corners, GA. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**

The samples were prepared in accordance with EPA 7470A with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Internal Standards:**

All internal standards were within QC limits with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

---

**Method:** SM 2540C-2015

**Description:** 2540C Total Dissolved Solids

**Client:** Georgia Power

**Date:** July 28, 2023

### General Information:

25 samples were analyzed for SM 2540C-2015 by Pace Analytical Services Peachtree Corners, GA. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: 753740

D6: The precision between the sample and sample duplicate exceeded laboratory control limits.

- DUP (Lab ID: 3916055)
- Total Dissolved Solids

QC Batch: 753781

D6: The precision between the sample and sample duplicate exceeded laboratory control limits.

- DUP (Lab ID: 3916198)
- Total Dissolved Solids

QC Batch: 754311

D6: The precision between the sample and sample duplicate exceeded laboratory control limits.

- DUP (Lab ID: 3918594)

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

---

**Method:** SM 2540C-2015

**Description:** 2540C Total Dissolved Solids

**Client:** Georgia Power

**Date:** July 28, 2023

QC Batch: 754311

D6: The precision between the sample and sample duplicate exceeded laboratory control limits.

- Total Dissolved Solids

QC Batch: 754576

D6: The precision between the sample and sample duplicate exceeded laboratory control limits.

- DUP (Lab ID: 3921107)
- Total Dissolved Solids

QC Batch: 755437

D6: The precision between the sample and sample duplicate exceeded laboratory control limits.

- DUP (Lab ID: 3924938)
- Total Dissolved Solids

### Additional Comments:

Analyte Comments:

QC Batch: 754118

1g: Sample residue exceeded method SM 2540C recommended 200 mg.

- DUP (Lab ID: 3917653)
- Total Dissolved Solids

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Plant McD AP-2, 3/4 Assessment  
Pace Project No.: 92650182

---

**Method:** SM 2320B-2011  
**Description:** 2320B Alkalinity  
**Client:** Georgia Power  
**Date:** July 28, 2023

### General Information:

25 samples were analyzed for SM 2320B-2011 by Pace Analytical Services Asheville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 753922

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92649235035,92649235036

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

- MS (Lab ID: 3916728)
  - Alkalinity, Total as CaCO<sub>3</sub>
- MS (Lab ID: 3916730)
  - Alkalinity, Total as CaCO<sub>3</sub>
- MSD (Lab ID: 3916729)
  - Alkalinity, Total as CaCO<sub>3</sub>

QC Batch: 754413

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92650181010,92650181012

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

- MS (Lab ID: 3919375)
  - Alkalinity, Total as CaCO<sub>3</sub>
- MSD (Lab ID: 3919376)
  - Alkalinity, Total as CaCO<sub>3</sub>

QC Batch: 755965

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92649235057,92649235058

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

- MSD (Lab ID: 3927501)
  - Alkalinity, Total as CaCO<sub>3</sub>

### Additional Comments:

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## PROJECT NARRATIVE

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

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**Method:** EPA 300.0 Rev 2.1 1993

**Description:** 300.0 IC Anions 28 Days

**Client:** Georgia Power

**Date:** July 28, 2023

### General Information:

25 samples were analyzed for EPA 300.0 Rev 2.1 1993 by Pace Analytical Services Asheville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of-custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 753991

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92650019010,92650181004

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

- MS (Lab ID: 3916902)
  - Fluoride
- MS (Lab ID: 3916904)
  - Sulfate
- MSD (Lab ID: 3916903)
  - Fluoride
- MSD (Lab ID: 3916905)
  - Sulfate

QC Batch: 754259

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92650182006,92650416003

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

- MS (Lab ID: 3918327)
  - Sulfate
- MSD (Lab ID: 3918328)
  - Sulfate

QC Batch: 754806

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92650182014,92651076001

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

- MS (Lab ID: 3921458)
  - Sulfate

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## PROJECT NARRATIVE

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

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**Method:** EPA 300.0 Rev 2.1 1993

**Description:** 300.0 IC Anions 28 Days

**Client:** Georgia Power

**Date:** July 28, 2023

QC Batch: 755348

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92651512003,92651580001

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

- MS (Lab ID: 3924716)
  - Sulfate
- MSD (Lab ID: 3924717)
  - Sulfate

### Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

**Sample: MCD-B-92**      **Lab ID: 92650182001**      Collected: 01/31/23 12:20      Received: 02/02/23 11:36      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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**Monitoring Well Data**

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>Client</b>				1		02/14/23 16:37		
Collected Date	<b>01/31/23</b>				1		02/14/23 16:37		
Collected Time	<b>12:25</b>				1		02/14/23 16:37		
pH	<b>4.48</b>	Std. Units			1		02/14/23 16:37		

**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	02/17/23 14:51	02/17/23 19:55	7439-89-6	
Potassium	<b>6.0</b>	mg/L	0.20	0.15	1	02/17/23 14:51	02/17/23 19:55	7440-09-7	
Sodium	<b>17.6</b>	mg/L	1.0	0.58	1	02/17/23 14:51	02/17/23 19:55	7440-23-5	
Calcium	<b>95.0</b>	mg/L	1.0	0.12	1	02/17/23 14:51	02/17/23 19:55	7440-70-2	
Magnesium	<b>16.6</b>	mg/L	0.050	0.012	1	02/17/23 14:51	02/17/23 19:55	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	02/20/23 09:31	02/20/23 15:13	7440-36-0	
Arsenic	<b>0.0023J</b>	mg/L	0.0050	0.0022	1	02/20/23 09:31	02/20/23 15:13	7440-38-2	
Barium	<b>0.015</b>	mg/L	0.0050	0.00067	1	02/20/23 09:31	02/20/23 15:13	7440-39-3	
Beryllium	<b>0.017</b>	mg/L	0.00050	0.000054	1	02/20/23 09:31	02/20/23 15:13	7440-41-7	
Boron	<b>2.6</b>	mg/L	0.040	0.0086	1	02/20/23 09:31	02/20/23 15:13	7440-42-8	
Cadmium	<b>0.0015</b>	mg/L	0.00050	0.00011	1	02/20/23 09:31	02/20/23 15:13	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 09:31	02/20/23 15:13	7440-47-3	
Cobalt	<b>0.080</b>	mg/L	0.0050	0.00039	1	02/20/23 09:31	02/20/23 15:13	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 09:31	02/20/23 15:13	7439-92-1	
Lithium	<b>0.014J</b>	mg/L	0.030	0.00073	1	02/20/23 09:31	02/20/23 15:13	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 09:31	02/20/23 15:13	7439-98-7	
Selenium	<b>0.0086</b>	mg/L	0.0050	0.0014	1	02/20/23 09:31	02/20/23 15:13	7782-49-2	
Thallium	<b>0.00021J</b>	mg/L	0.0010	0.00018	1	02/20/23 09:31	02/20/23 15:13	7440-28-0	

**7470 Mercury**

Analytical Method: EPA 7470A      Preparation Method: EPA 7470A  
Pace Analytical Services - Peachtree Corners, GA

Mercury	<b>0.00017J</b>	mg/L	0.00020	0.00013	1	02/27/23 15:15	02/28/23 08:10	7439-97-6	
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**2540C Total Dissolved Solids**

Analytical Method: SM 2540C-2015  
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	<b>688</b>	mg/L	25.0	25.0	1		02/03/23 15:51		
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**2320B Alkalinity**

Analytical Method: SM 2320B-2011  
Pace Analytical Services - Asheville

Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/04/23 18:02		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/04/23 18:02		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		02/04/23 18:02		

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

Sample: MCD-B-92 Lab ID: 92650182001 Collected: 01/31/23 12:20 Received: 02/02/23 11:36 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	11.4	mg/L	1.0	0.60	1		02/06/23 23:38	16887-00-6	
Fluoride	0.20	mg/L	0.10	0.050	1		02/06/23 23:38	16984-48-8	
Sulfate	393	mg/L	9.0	4.5	9		02/07/23 10:46	14808-79-8	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

Sample: MCD-B-93		Lab ID: 92650182002		Collected: 01/31/23 14:25		Received: 02/02/23 11:36		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Monitoring Well Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Client</b>				1		02/14/23 16:39		
Collected Date	<b>01/31/23</b>				1		02/14/23 16:39		
Collected Time	<b>14:30</b>				1		02/14/23 16:39		
pH	<b>4.68</b>	Std. Units			1		02/14/23 16:39		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	ND	mg/L	0.040	0.025	1	02/17/23 14:51	02/17/23 20:00	7439-89-6	
Potassium	<b>6.3</b>	mg/L	0.20	0.15	1	02/17/23 14:51	02/17/23 20:00	7440-09-7	
Sodium	<b>22.9</b>	mg/L	1.0	0.58	1	02/17/23 14:51	02/17/23 20:00	7440-23-5	
Calcium	<b>123</b>	mg/L	1.0	0.12	1	02/17/23 14:51	02/17/23 20:00	7440-70-2	
Magnesium	<b>21.8</b>	mg/L	0.050	0.012	1	02/17/23 14:51	02/17/23 20:00	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	<b>0.0015J</b>	mg/L	0.0030	0.00078	1	02/20/23 09:31	02/20/23 15:36	7440-36-0	
Arsenic	<b>0.0028J</b>	mg/L	0.0050	0.0022	1	02/20/23 09:31	02/20/23 15:36	7440-38-2	
Barium	<b>0.015</b>	mg/L	0.0050	0.00067	1	02/20/23 09:31	02/20/23 15:36	7440-39-3	
Beryllium	<b>0.016</b>	mg/L	0.00050	0.000054	1	02/20/23 09:31	02/20/23 15:36	7440-41-7	
Boron	<b>3.3</b>	mg/L	0.040	0.0086	1	02/20/23 09:31	02/20/23 15:36	7440-42-8	
Cadmium	<b>0.00089</b>	mg/L	0.00050	0.00011	1	02/20/23 09:31	02/20/23 15:36	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 09:31	02/20/23 15:36	7440-47-3	
Cobalt	<b>0.067</b>	mg/L	0.0050	0.00039	1	02/20/23 09:31	02/20/23 15:36	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 09:31	02/20/23 15:36	7439-92-1	
Lithium	<b>0.011J</b>	mg/L	0.030	0.00073	1	02/20/23 09:31	02/20/23 15:36	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 09:31	02/20/23 15:36	7439-98-7	
Selenium	<b>0.013</b>	mg/L	0.0050	0.0014	1	02/20/23 09:31	02/20/23 15:36	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 09:31	02/20/23 15:36	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/27/23 15:15	02/28/23 08:12	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>898</b>	mg/L	25.0	25.0	1		02/03/23 15:51		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/04/23 18:06		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/04/23 18:06		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		02/04/23 18:06		

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### ANALYTICAL RESULTS

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

Sample: MCD-B-93 Lab ID: 92650182002 Collected: 01/31/23 14:25 Received: 02/02/23 11:36 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	15.7	mg/L	1.0	0.60	1		02/07/23 00:04	16887-00-6	
Fluoride	0.40	mg/L	0.10	0.050	1		02/07/23 00:04	16984-48-8	
Sulfate	536	mg/L	12.0	6.0	12		02/07/23 11:11	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

Sample: MCD-B-98		Lab ID: 92650182003		Collected: 01/31/23 16:30		Received: 02/02/23 11:36		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Monitoring Well Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Client</b>				1		02/14/23 16:40		
Collected Date	<b>01/31/23</b>				1		02/14/23 16:40		
Collected Time	<b>16:35</b>				1		02/14/23 16:40		
pH	<b>6.76</b>	Std. Units			1		02/14/23 16:40		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	<b>0.12</b>	mg/L	0.040	0.025	1	02/17/23 14:51	02/17/23 20:05	7439-89-6	
Potassium	<b>5.5</b>	mg/L	0.20	0.15	1	02/17/23 14:51	02/17/23 20:05	7440-09-7	
Sodium	<b>3.1</b>	mg/L	1.0	0.58	1	02/17/23 14:51	02/17/23 20:05	7440-23-5	
Calcium	<b>40.6</b>	mg/L	1.0	0.12	1	02/17/23 14:51	02/17/23 20:05	7440-70-2	
Magnesium	<b>2.7</b>	mg/L	0.050	0.012	1	02/17/23 14:51	02/17/23 20:05	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	<b>0.0010J</b>	mg/L	0.0030	0.00078	1	02/20/23 09:31	02/20/23 15:42	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 09:31	02/20/23 15:42	7440-38-2	
Barium	<b>0.041</b>	mg/L	0.0050	0.00067	1	02/20/23 09:31	02/20/23 15:42	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/20/23 09:31	02/20/23 15:42	7440-41-7	
Boron	<b>0.083</b>	mg/L	0.040	0.0086	1	02/20/23 09:31	02/20/23 15:42	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/20/23 09:31	02/20/23 15:42	7440-43-9	
Chromium	<b>0.0014J</b>	mg/L	0.0050	0.0011	1	02/20/23 09:31	02/20/23 15:42	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/20/23 09:31	02/20/23 15:42	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 09:31	02/20/23 15:42	7439-92-1	
Lithium	<b>0.00089J</b>	mg/L	0.030	0.00073	1	02/20/23 09:31	02/20/23 15:42	7439-93-2	
Molybdenum	<b>0.0014J</b>	mg/L	0.010	0.00074	1	02/20/23 09:31	02/20/23 15:42	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 09:31	02/20/23 15:42	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 09:31	02/20/23 15:42	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/27/23 15:15	02/28/23 08:15	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>147</b>	mg/L	25.0	25.0	1		02/06/23 17:51		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	<b>118</b>	mg/L	5.0	5.0	1		02/04/23 18:12		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/04/23 18:12		
Alkalinity, Total as CaCO3	<b>118</b>	mg/L	5.0	5.0	1		02/04/23 18:12		

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### ANALYTICAL RESULTS

Project: Plant McD AP-2, 3/4 Assessment  
 Pace Project No.: 92650182

**Sample: MCD-B-98**      **Lab ID: 92650182003**      Collected: 01/31/23 16:30      Received: 02/02/23 11:36      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>2.8</b>	mg/L	1.0	0.60	1		02/07/23 00:30	16887-00-6	
Fluoride	<b>0.19</b>	mg/L	0.10	0.050	1		02/07/23 00:30	16984-48-8	
Sulfate	<b>8.7</b>	mg/L	1.0	0.50	1		02/07/23 00:30	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

Sample: MCD-B-97		Lab ID: 92650182004		Collected: 02/01/23 11:20		Received: 02/02/23 11:36		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Monitoring Well Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Client</b>				1		02/14/23 16:42		
Collected Date	<b>02/01/23</b>				1		02/14/23 16:42		
Collected Time	<b>11:25</b>				1		02/14/23 16:42		
pH	<b>5.47</b>	Std. Units			1		02/14/23 16:42		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	ND	mg/L	0.040	0.025	1	02/17/23 14:51	02/17/23 20:10	7439-89-6	
Potassium	<b>5.5</b>	mg/L	0.20	0.15	1	02/17/23 14:51	02/17/23 20:10	7440-09-7	
Sodium	<b>38.1</b>	mg/L	1.0	0.58	1	02/17/23 14:51	02/17/23 20:10	7440-23-5	
Calcium	<b>192</b>	mg/L	1.0	0.12	1	02/17/23 14:51	02/17/23 20:10	7440-70-2	
Magnesium	<b>34.2</b>	mg/L	0.050	0.012	1	02/17/23 14:51	02/17/23 20:10	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/20/23 09:31	02/20/23 15:48	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 09:31	02/20/23 15:48	7440-38-2	
Barium	<b>0.021</b>	mg/L	0.0050	0.00067	1	02/20/23 09:31	02/20/23 15:48	7440-39-3	
Beryllium	<b>0.0017</b>	mg/L	0.00050	0.000054	1	02/20/23 09:31	02/20/23 15:48	7440-41-7	
Boron	<b>3.7</b>	mg/L	0.040	0.0086	1	02/20/23 09:31	02/20/23 15:48	7440-42-8	
Cadmium	<b>0.00063</b>	mg/L	0.00050	0.00011	1	02/20/23 09:31	02/20/23 15:48	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 09:31	02/20/23 15:48	7440-47-3	
Cobalt	<b>0.0033J</b>	mg/L	0.0050	0.00039	1	02/20/23 09:31	02/20/23 15:48	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 09:31	02/20/23 15:48	7439-92-1	
Lithium	<b>0.0048J</b>	mg/L	0.030	0.00073	1	02/20/23 09:31	02/20/23 15:48	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 09:31	02/20/23 15:48	7439-98-7	
Selenium	<b>0.0036J</b>	mg/L	0.0050	0.0014	1	02/20/23 09:31	02/20/23 15:48	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 09:31	02/20/23 15:48	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/27/23 15:15	02/28/23 08:18	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>1170</b>	mg/L	25.0	25.0	1		02/06/23 17:52		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	<b>54.6</b>	mg/L	5.0	5.0	1		02/04/23 18:21		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/04/23 18:21		
Alkalinity, Total as CaCO3	<b>54.6</b>	mg/L	5.0	5.0	1		02/04/23 18:21		

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**ANALYTICAL RESULTS**

Project: Plant McD AP-2, 3/4 Assessment  
 Pace Project No.: 92650182

**Sample: MCD-B-97**      **Lab ID: 92650182004**      Collected: 02/01/23 11:20      Received: 02/02/23 11:36      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>19.4</b>	mg/L	1.0	0.60	1		02/07/23 00:56	16887-00-6	
Fluoride	<b>0.11</b>	mg/L	0.10	0.050	1		02/07/23 00:56	16984-48-8	
Sulfate	<b>648</b>	mg/L	14.0	7.0	14		02/07/23 11:37	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

Sample: MCD-B-63 Lab ID: 92650182005 Collected: 02/02/23 13:20 Received: 02/03/23 16:23 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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#### Monitoring Well Data

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	Client				1		02/14/23 16:45		
Collected Date	02/02/23				1		02/14/23 16:45		
Collected Time	13:25				1		02/14/23 16:45		
pH	5.85	Std. Units			1		02/14/23 16:45		

#### 6010D ATL ICP

Analytical Method: EPA 6010D Preparation Method: EPA 3010A  
Pace Analytical Services - Peachtree Corners, GA

Iron	8.3	mg/L	0.040	0.025	1	02/17/23 14:51	02/17/23 20:15	7439-89-6	M1
Potassium	2.8	mg/L	0.20	0.15	1	02/17/23 14:51	02/17/23 20:15	7440-09-7	
Sodium	11.0	mg/L	1.0	0.58	1	02/17/23 14:51	02/17/23 20:15	7440-23-5	M1
Calcium	21.2	mg/L	1.0	0.12	1	02/17/23 14:51	02/17/23 20:15	7440-70-2	M1
Magnesium	8.0	mg/L	0.050	0.012	1	02/17/23 14:51	02/17/23 20:15	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	02/20/23 09:31	02/20/23 15:54	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 09:31	02/20/23 15:54	7440-38-2	
Barium	0.056	mg/L	0.0050	0.00067	1	02/20/23 09:31	02/20/23 15:54	7440-39-3	
Beryllium	0.00028J	mg/L	0.00050	0.000054	1	02/20/23 09:31	02/20/23 15:54	7440-41-7	
Boron	0.47	mg/L	0.040	0.0086	1	02/20/23 09:31	02/20/23 15:54	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/20/23 09:31	02/20/23 15:54	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 09:31	02/20/23 15:54	7440-47-3	
Cobalt	0.027	mg/L	0.0050	0.00039	1	02/20/23 09:31	02/20/23 15:54	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 09:31	02/20/23 15:54	7439-92-1	
Lithium	0.0045J	mg/L	0.030	0.00073	1	02/20/23 09:31	02/20/23 15:54	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 09:31	02/20/23 15:54	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 09:31	02/20/23 15:54	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 09:31	02/20/23 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	0.00013	1	02/27/23 15:15	02/28/23 08:20	7439-97-6	
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#### 2540C Total Dissolved Solids

Analytical Method: SM 2540C-2015  
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	198	mg/L	25.0	25.0	1		02/07/23 18:41		
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#### 2320B Alkalinity

Analytical Method: SM 2320B-2011  
Pace Analytical Services - Asheville

Alkalinity,Bicarbonate (CaCO3)	82.9	mg/L	5.0	5.0	1		02/08/23 13:11		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/08/23 13:11		
Alkalinity, Total as CaCO3	82.9	mg/L	5.0	5.0	1		02/08/23 13:11		

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### ANALYTICAL RESULTS

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

Sample: MCD-B-63 Lab ID: 92650182005 Collected: 02/02/23 13:20 Received: 02/03/23 16:23 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	7.0	mg/L	1.0	0.60	1		02/08/23 04:23	16887-00-6	
Fluoride	0.13	mg/L	0.10	0.050	1		02/08/23 04:23	16984-48-8	
Sulfate	50.1	mg/L	1.0	0.50	1		02/08/23 04:23	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

Sample: MCD-B-102D		Lab ID: 92650182006		Collected: 02/02/23 12:05		Received: 02/03/23 16:23		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Monitoring Well Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Client</b>				1		02/14/23 16:46		
Collected Date	<b>02/02/23</b>				1		02/14/23 16:46		
Collected Time	<b>12:10</b>				1		02/14/23 16:46		
pH	<b>5.47</b>	Std. Units			1		02/14/23 16:46		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	<b>0.061</b>	mg/L	0.040	0.025	1	02/17/23 14:51	02/17/23 20:34	7439-89-6	
Potassium	<b>6.1</b>	mg/L	0.20	0.15	1	02/17/23 14:51	02/17/23 20:34	7440-09-7	
Sodium	<b>17.3</b>	mg/L	1.0	0.58	1	02/17/23 14:51	02/17/23 20:34	7440-23-5	
Calcium	<b>68.0</b>	mg/L	1.0	0.12	1	02/17/23 14:51	02/17/23 20:34	7440-70-2	
Magnesium	<b>15.7</b>	mg/L	0.050	0.012	1	02/17/23 14:51	02/17/23 20:34	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/20/23 09:31	02/20/23 16:30	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 09:31	02/20/23 16:30	7440-38-2	
Barium	<b>0.020</b>	mg/L	0.0050	0.00067	1	02/20/23 09:31	02/20/23 16:30	7440-39-3	
Beryllium	<b>0.00091</b>	mg/L	0.00050	0.000054	1	02/20/23 09:31	02/20/23 16:30	7440-41-7	
Boron	<b>2.2</b>	mg/L	0.040	0.0086	1	02/20/23 09:31	02/20/23 16:30	7440-42-8	
Cadmium	<b>0.00087</b>	mg/L	0.00050	0.00011	1	02/20/23 09:31	02/20/23 16:30	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 09:31	02/20/23 16:30	7440-47-3	
Cobalt	<b>0.011</b>	mg/L	0.0050	0.00039	1	02/20/23 09:31	02/20/23 16:30	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 09:31	02/20/23 16:30	7439-92-1	
Lithium	<b>0.011J</b>	mg/L	0.030	0.00073	1	02/20/23 09:31	02/20/23 16:30	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 09:31	02/20/23 16:30	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 09:31	02/20/23 16:30	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 09:31	02/20/23 16:30	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/27/23 15:15	02/28/23 08:23	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>466</b>	mg/L	25.0	25.0	1		02/07/23 18:41		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	<b>12.6</b>	mg/L	5.0	5.0	1		02/08/23 13:31		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/08/23 13:31		
Alkalinity, Total as CaCO3	<b>12.6</b>	mg/L	5.0	5.0	1		02/08/23 13:31		

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### ANALYTICAL RESULTS

Project: Plant McD AP-2, 3/4 Assessment  
 Pace Project No.: 92650182

Sample: MCD-B-102D		Lab ID: 92650182006		Collected: 02/02/23 12:05		Received: 02/03/23 16:23		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	<b>10.8</b>	mg/L	1.0	0.60	1		02/08/23 04:39	16887-00-6	
Fluoride	<b>0.091J</b>	mg/L	0.10	0.050	1		02/08/23 04:39	16984-48-8	
Sulfate	<b>252</b>	mg/L	5.0	2.5	5		02/08/23 12:03	14808-79-8	M1

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## ANALYTICAL RESULTS

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

Sample: MCD-B-83		Lab ID: 92650182007		Collected: 02/03/23 12:15		Received: 02/03/23 16:23		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Monitoring Well Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Client</b>				1		02/14/23 16:46		
Collected Date	<b>02/03/23</b>				1		02/14/23 16:46		
Collected Time	<b>12:20</b>				1		02/14/23 16:46		
pH	<b>5.59</b>	Std. Units			1		02/14/23 16:46		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	ND	mg/L	0.040	0.025	1	02/17/23 14:51	02/17/23 20:39	7439-89-6	
Potassium	<b>2.3</b>	mg/L	0.20	0.15	1	02/17/23 14:51	02/17/23 20:39	7440-09-7	
Sodium	<b>9.7</b>	mg/L	1.0	0.58	1	02/17/23 14:51	02/17/23 20:39	7440-23-5	
Calcium	<b>31.4</b>	mg/L	1.0	0.12	1	02/17/23 14:51	02/17/23 20:39	7440-70-2	
Magnesium	<b>9.1</b>	mg/L	0.050	0.012	1	02/17/23 14:51	02/17/23 20:39	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/20/23 09:31	02/20/23 16:36	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 09:31	02/20/23 16:36	7440-38-2	
Barium	<b>0.024</b>	mg/L	0.0050	0.00067	1	02/20/23 09:31	02/20/23 16:36	7440-39-3	
Beryllium	<b>0.00038J</b>	mg/L	0.00050	0.000054	1	02/20/23 09:31	02/20/23 16:36	7440-41-7	
Boron	<b>0.31</b>	mg/L	0.040	0.0086	1	02/20/23 09:31	02/20/23 16:36	7440-42-8	
Cadmium	<b>0.00030J</b>	mg/L	0.00050	0.00011	1	02/20/23 09:31	02/20/23 16:36	7440-43-9	
Chromium	<b>0.0026J</b>	mg/L	0.0050	0.0011	1	02/20/23 09:31	02/20/23 16:36	7440-47-3	
Cobalt	<b>0.012</b>	mg/L	0.0050	0.00039	1	02/20/23 09:31	02/20/23 16:36	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 09:31	02/20/23 16:36	7439-92-1	
Lithium	<b>0.0025J</b>	mg/L	0.030	0.00073	1	02/20/23 09:31	02/20/23 16:36	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 09:31	02/20/23 16:36	7439-98-7	
Selenium	<b>0.021</b>	mg/L	0.0050	0.0014	1	02/20/23 09:31	02/20/23 16:36	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 09:31	02/20/23 16:36	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/23/23 15:10	02/24/23 07:26	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>214</b>	mg/L	25.0	25.0	1		02/07/23 13:19		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	<b>31.4</b>	mg/L	5.0	5.0	1		02/08/23 16:12		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/08/23 16:12		
Alkalinity, Total as CaCO3	<b>31.4</b>	mg/L	5.0	5.0	1		02/08/23 16:12		

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### ANALYTICAL RESULTS

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

Sample: MCD-B-83 Lab ID: 92650182007 Collected: 02/03/23 12:15 Received: 02/03/23 16:23 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	2.5	mg/L	1.0	0.60	1		02/08/23 05:27	16887-00-6	
Fluoride	0.12	mg/L	0.10	0.050	1		02/08/23 05:27	16984-48-8	
Sulfate	106	mg/L	2.0	1.0	2		02/08/23 12:51	14808-79-8	

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## ANALYTICAL RESULTS

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

Sample: MCD-B-120D		Lab ID: 92650182008		Collected: 02/03/23 11:00		Received: 02/03/23 16:23		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Monitoring Well Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Client</b>				1		02/14/23 16:47		
Collected Date	<b>02/03/23</b>				1		02/14/23 16:47		
Collected Time	<b>11:05</b>				1		02/14/23 16:47		
pH	<b>5.59</b>	Std. Units			1		02/14/23 16:47		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	<b>0.051</b>	mg/L	0.040	0.025	1	02/17/23 14:51	02/17/23 20:53	7439-89-6	
Potassium	<b>8.5</b>	mg/L	0.20	0.15	1	02/17/23 14:51	02/17/23 20:53	7440-09-7	
Sodium	<b>29.0</b>	mg/L	1.0	0.58	1	02/17/23 14:51	02/17/23 20:53	7440-23-5	
Calcium	<b>121</b>	mg/L	1.0	0.12	1	02/17/23 14:51	02/17/23 20:53	7440-70-2	
Magnesium	<b>28.0</b>	mg/L	0.050	0.012	1	02/17/23 14:51	02/17/23 20:53	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/20/23 09:31	02/20/23 16:42	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 09:31	02/20/23 16:42	7440-38-2	
Barium	<b>0.021</b>	mg/L	0.0050	0.00067	1	02/20/23 09:31	02/20/23 16:42	7440-39-3	
Beryllium	<b>0.0010</b>	mg/L	0.00050	0.000054	1	02/20/23 09:31	02/20/23 16:42	7440-41-7	
Boron	<b>1.5</b>	mg/L	0.040	0.0086	1	02/20/23 09:31	02/20/23 16:42	7440-42-8	
Cadmium	<b>0.0011</b>	mg/L	0.00050	0.00011	1	02/20/23 09:31	02/20/23 16:42	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 09:31	02/20/23 16:42	7440-47-3	
Cobalt	<b>0.0025J</b>	mg/L	0.0050	0.00039	1	02/20/23 09:31	02/20/23 16:42	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 09:31	02/20/23 16:42	7439-92-1	
Lithium	<b>0.068</b>	mg/L	0.030	0.00073	1	02/20/23 09:31	02/20/23 16:42	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 09:31	02/20/23 16:42	7439-98-7	
Selenium	<b>0.0050J</b>	mg/L	0.0050	0.0014	1	02/20/23 09:31	02/20/23 16:42	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 09:31	02/20/23 16:42	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/23/23 15:10	02/24/23 07:37	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>803</b>	mg/L	25.0	25.0	1		02/07/23 13:20		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	<b>27.0</b>	mg/L	5.0	5.0	1		02/08/23 16:19		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/08/23 16:19		
Alkalinity, Total as CaCO3	<b>27.0</b>	mg/L	5.0	5.0	1		02/08/23 16:19		

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**ANALYTICAL RESULTS**

Project: Plant McD AP-2, 3/4 Assessment  
 Pace Project No.: 92650182

**Sample: MCD-B-120D**      **Lab ID: 92650182008**      Collected: 02/03/23 11:00      Received: 02/03/23 16:23      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>6.1</b>	mg/L	1.0	0.60	1		02/08/23 05:43	16887-00-6	
Fluoride	<b>0.052J</b>	mg/L	0.10	0.050	1		02/08/23 05:43	16984-48-8	
Sulfate	<b>464</b>	mg/L	10.0	5.0	10		02/08/23 13:06	14808-79-8	

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## ANALYTICAL RESULTS

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: MCD-B-101D</b>									
<b>Lab ID: 92650182009</b>									
Collected: 02/03/23 13:10									
Received: 02/03/23 16:23									
Matrix: Water									
<b>Monitoring Well Data</b>									
Analytical Method:									
Pace Analytical Services - Charlotte									
Performed by	<b>Client</b>				1		02/14/23 16:48		
Collected Date	<b>02/03/23</b>				1		02/14/23 16:48		
Collected Time	<b>13:15</b>				1		02/14/23 16:48		
pH	<b>5.95</b>	Std. Units			1		02/14/23 16:48		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D									
Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	<b>0.28</b>	mg/L	0.040	0.025	1	02/17/23 14:51	02/17/23 20:58	7439-89-6	
Potassium	<b>5.3</b>	mg/L	0.20	0.15	1	02/17/23 14:51	02/17/23 20:58	7440-09-7	
Sodium	<b>16.2</b>	mg/L	1.0	0.58	1	02/17/23 14:51	02/17/23 20:58	7440-23-5	
Calcium	<b>41.8</b>	mg/L	1.0	0.12	1	02/17/23 14:51	02/17/23 20:58	7440-70-2	
Magnesium	<b>15.8</b>	mg/L	0.050	0.012	1	02/17/23 14:51	02/17/23 20:58	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B									
Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/20/23 09:31	02/20/23 16:47	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 09:31	02/20/23 16:47	7440-38-2	
Barium	<b>0.048</b>	mg/L	0.0050	0.00067	1	02/20/23 09:31	02/20/23 16:47	7440-39-3	
Beryllium	<b>0.000063J</b>	mg/L	0.00050	0.000054	1	02/20/23 09:31	02/20/23 16:47	7440-41-7	
Boron	<b>1.1</b>	mg/L	0.040	0.0086	1	02/20/23 09:31	02/20/23 16:47	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/20/23 09:31	02/20/23 16:47	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 09:31	02/20/23 16:47	7440-47-3	
Cobalt	<b>0.0022J</b>	mg/L	0.0050	0.00039	1	02/20/23 09:31	02/20/23 16:47	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 09:31	02/20/23 16:47	7439-92-1	
Lithium	<b>0.0080J</b>	mg/L	0.030	0.00073	1	02/20/23 09:31	02/20/23 16:47	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 09:31	02/20/23 16:47	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 09:31	02/20/23 16:47	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 09:31	02/20/23 16:47	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A									
Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	<b>0.00029</b>	mg/L	0.00020	0.00013	1	02/23/23 15:10	02/24/23 07:39	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>313</b>	mg/L	25.0	25.0	1		02/07/23 13:20		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	<b>35.0</b>	mg/L	5.0	5.0	1		02/08/23 16:26		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/08/23 16:26		
Alkalinity, Total as CaCO3	<b>35.0</b>	mg/L	5.0	5.0	1		02/08/23 16:26		

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### ANALYTICAL RESULTS

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

**Sample: MCD-B-101D**      **Lab ID: 92650182009**      Collected: 02/03/23 13:10      Received: 02/03/23 16:23      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>9.1</b>	mg/L	1.0	0.60	1		02/08/23 05:59	16887-00-6	
Fluoride	<b>0.11</b>	mg/L	0.10	0.050	1		02/08/23 05:59	16984-48-8	
Sulfate	<b>159</b>	mg/L	3.0	1.5	3		02/08/23 13:54	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

Sample: MCD-B-104D		Lab ID: 92650182010		Collected: 02/03/23 13:10		Received: 02/03/23 16:23		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Monitoring Well Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Client</b>				1		02/14/23 16:48		
Collected Date	<b>02/03/23</b>				1		02/14/23 16:48		
Collected Time	<b>13:15</b>				1		02/14/23 16:48		
pH	<b>6.17</b>	Std. Units			1		02/14/23 16:48		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	<b>10.3</b>	mg/L	0.040	0.025	1	02/17/23 14:51	02/17/23 21:03	7439-89-6	
Potassium	<b>7.8</b>	mg/L	0.20	0.15	1	02/17/23 14:51	02/17/23 21:03	7440-09-7	
Sodium	<b>17.7</b>	mg/L	1.0	0.58	1	02/17/23 14:51	02/17/23 21:03	7440-23-5	
Calcium	<b>142</b>	mg/L	1.0	0.12	1	02/17/23 14:51	02/17/23 21:03	7440-70-2	
Magnesium	<b>27.0</b>	mg/L	0.050	0.012	1	02/17/23 14:51	02/17/23 21:03	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/20/23 09:31	02/20/23 16:53	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 09:31	02/20/23 16:53	7440-38-2	
Barium	<b>0.017</b>	mg/L	0.0050	0.00067	1	02/20/23 09:31	02/20/23 16:53	7440-39-3	
Beryllium	<b>0.0016</b>	mg/L	0.00050	0.000054	1	02/20/23 09:31	02/20/23 16:53	7440-41-7	
Boron	<b>0.26</b>	mg/L	0.040	0.0086	1	02/20/23 09:31	02/20/23 16:53	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/20/23 09:31	02/20/23 16:53	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 09:31	02/20/23 16:53	7440-47-3	
Cobalt	<b>0.17</b>	mg/L	0.0050	0.00039	1	02/20/23 09:31	02/20/23 16:53	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 09:31	02/20/23 16:53	7439-92-1	
Lithium	<b>0.037</b>	mg/L	0.030	0.00073	1	02/20/23 09:31	02/20/23 16:53	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 09:31	02/20/23 16:53	7439-98-7	
Selenium	<b>0.0018J</b>	mg/L	0.0050	0.0014	1	02/20/23 09:31	02/20/23 16:53	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 09:31	02/20/23 16:53	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/23/23 15:10	02/24/23 07:42	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>842</b>	mg/L	25.0	25.0	1		02/07/23 13:20		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	<b>62.0</b>	mg/L	5.0	5.0	1		02/08/23 16:32		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/08/23 16:32		
Alkalinity, Total as CaCO3	<b>62.0</b>	mg/L	5.0	5.0	1		02/08/23 16:32		

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**ANALYTICAL RESULTS**

Project: Plant McD AP-2, 3/4 Assessment  
 Pace Project No.: 92650182

**Sample: MCD-B-104D**      **Lab ID: 92650182010**      Collected: 02/03/23 13:10      Received: 02/03/23 16:23      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>7.8</b>	mg/L	1.0	0.60	1		02/08/23 06:15	16887-00-6	
Fluoride	<b>0.36</b>	mg/L	0.10	0.050	1		02/08/23 06:15	16984-48-8	
Sulfate	<b>495</b>	mg/L	11.0	5.5	11		02/08/23 14:10	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

Sample: MCD-B-77 Lab ID: 92650182011 Collected: 02/06/23 13:55 Received: 02/07/23 11:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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#### Monitoring Well Data

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	Client				1		02/14/23 16:50		
Collected Date	02/06/23				1		02/14/23 16:50		
Collected Time	14:00				1		02/14/23 16:50		
pH	6.53	Std. Units			1		02/14/23 16:50		

#### 6010D ATL ICP

Analytical Method: EPA 6010D Preparation Method: EPA 3010A  
Pace Analytical Services - Peachtree Corners, GA

Iron	38.8	mg/L	0.040	0.025	1	02/17/23 14:51	02/17/23 21:08	7439-89-6	
Potassium	1.9	mg/L	0.20	0.15	1	02/17/23 14:51	02/17/23 21:08	7440-09-7	
Sodium	6.0	mg/L	1.0	0.58	1	02/17/23 14:51	02/17/23 21:08	7440-23-5	
Calcium	14.8	mg/L	1.0	0.12	1	02/17/23 14:51	02/17/23 21:08	7440-70-2	
Magnesium	5.4	mg/L	0.050	0.012	1	02/17/23 14:51	02/17/23 21:08	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	02/20/23 09:31	02/20/23 16:59	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 09:31	02/20/23 16:59	7440-38-2	
Barium	0.11	mg/L	0.0050	0.00067	1	02/20/23 09:31	02/20/23 16:59	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/20/23 09:31	02/20/23 16:59	7440-41-7	
Boron	0.31	mg/L	0.040	0.0086	1	02/20/23 09:31	02/20/23 16:59	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/20/23 09:31	02/20/23 16:59	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 09:31	02/20/23 16:59	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/20/23 09:31	02/20/23 16:59	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 09:31	02/20/23 16:59	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/20/23 09:31	02/20/23 16:59	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 09:31	02/20/23 16:59	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 09:31	02/20/23 16:59	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 09:31	02/20/23 16:59	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	0.00013	1	02/23/23 15:10	02/24/23 07:44	7439-97-6	
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#### 2540C Total Dissolved Solids

Analytical Method: SM 2540C-2015  
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	92.0	mg/L	25.0	25.0	1		02/08/23 18:55		
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#### 2320B Alkalinity

Analytical Method: SM 2320B-2011  
Pace Analytical Services - Asheville

Alkalinity,Bicarbonate (CaCO3)	114	mg/L	5.0	5.0	1		02/09/23 23:00		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/09/23 23:00		
Alkalinity, Total as CaCO3	114	mg/L	5.0	5.0	1		02/09/23 23:00		

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### ANALYTICAL RESULTS

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

Sample: MCD-B-77 Lab ID: 92650182011 Collected: 02/06/23 13:55 Received: 02/07/23 11:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	3.5	mg/L	1.0	0.60	1		02/09/23 15:22	16887-00-6	
Fluoride	0.069J	mg/L	0.10	0.050	1		02/09/23 15:22	16984-48-8	
Sulfate	1.8	mg/L	1.0	0.50	1		02/09/23 15:22	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

**Sample: MCD-B-107D**      **Lab ID: 92650182012**      Collected: 02/06/23 14:15      Received: 02/07/23 11:10      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				

**Monitoring Well Data**

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>Client</b>				1	02/14/23 16:51			
Collected Date	<b>02/06/23</b>				1	02/14/23 16:51			
Collected Time	<b>14:20</b>				1	02/14/23 16:51			
pH	<b>5.90</b>	Std. Units			1	02/14/23 16:51			

**6010D ATL ICP**

Analytical Method: EPA 6010D      Preparation Method: EPA 3010A  
Pace Analytical Services - Peachtree Corners, GA

Iron	<b>0.41</b>	mg/L	0.040	0.025	1	02/17/23 14:51	02/17/23 21:12	7439-89-6
Potassium	<b>5.8</b>	mg/L	0.20	0.15	1	02/17/23 14:51	02/17/23 21:12	7440-09-7
Sodium	<b>17.7</b>	mg/L	1.0	0.58	1	02/17/23 14:51	02/17/23 21:12	7440-23-5
Calcium	<b>76.0</b>	mg/L	1.0	0.12	1	02/17/23 14:51	02/17/23 21:12	7440-70-2
Magnesium	<b>29.6</b>	mg/L	0.050	0.012	1	02/17/23 14:51	02/17/23 21:12	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	02/20/23 09:31	02/20/23 17:05	7440-36-0
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 09:31	02/20/23 17:05	7440-38-2
Barium	<b>0.049</b>	mg/L	0.0050	0.00067	1	02/20/23 09:31	02/20/23 17:05	7440-39-3
Beryllium	ND	mg/L	0.00050	0.000054	1	02/20/23 09:31	02/20/23 17:05	7440-41-7
Boron	<b>10</b>	mg/L	0.040	0.0086	1	02/20/23 09:31	02/20/23 17:05	7440-42-8
Cadmium	ND	mg/L	0.00050	0.00011	1	02/20/23 09:31	02/20/23 17:05	7440-43-9
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 09:31	02/20/23 17:05	7440-47-3
Cobalt	<b>0.00070J</b>	mg/L	0.0050	0.00039	1	02/20/23 09:31	02/20/23 17:05	7440-48-4
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 09:31	02/20/23 17:05	7439-92-1
Lithium	<b>0.014J</b>	mg/L	0.030	0.00073	1	02/20/23 09:31	02/20/23 17:05	7439-93-2
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 09:31	02/20/23 17:05	7439-98-7
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 09:31	02/20/23 17:05	7782-49-2
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 09:31	02/20/23 17:05	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	0.00013	1	02/23/23 15:10	02/24/23 07:52	7439-97-6
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**2540C Total Dissolved Solids**

Analytical Method: SM 2540C-2015  
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	<b>608</b>	mg/L	25.0	25.0	1	02/08/23 18:55		
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**2320B Alkalinity**

Analytical Method: SM 2320B-2011  
Pace Analytical Services - Asheville

Alkalinity,Bicarbonate (CaCO3)	<b>28.7</b>	mg/L	5.0	5.0	1	02/09/23 23:11		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1	02/09/23 23:11		
Alkalinity, Total as CaCO3	<b>28.7</b>	mg/L	5.0	5.0	1	02/09/23 23:11		

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**ANALYTICAL RESULTS**

Project: Plant McD AP-2, 3/4 Assessment  
 Pace Project No.: 92650182

**Sample: MCD-B-107D**      **Lab ID: 92650182012**      Collected: 02/06/23 14:15      Received: 02/07/23 11:10      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	13.6	mg/L	1.0	0.60	1		02/09/23 15:36	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/09/23 15:36	16984-48-8	
Sulfate	299	mg/L	6.0	3.0	6		02/10/23 00:57	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

Sample: MCD-B-109D		Lab ID: 92650182013		Collected: 02/06/23 11:50		Received: 02/07/23 11:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Monitoring Well Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Client</b>				1		02/14/23 16:52		
Collected Date	<b>02/06/23</b>				1		02/14/23 16:52		
Collected Time	<b>11:55</b>				1		02/14/23 16:52		
pH	<b>6.44</b>	Std. Units			1		02/14/23 16:52		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	<b>13.2</b>	mg/L	0.040	0.025	1	02/17/23 14:51	02/17/23 21:17	7439-89-6	
Potassium	<b>7.2</b>	mg/L	0.20	0.15	1	02/17/23 14:51	02/17/23 21:17	7440-09-7	
Sodium	<b>20.7</b>	mg/L	1.0	0.58	1	02/17/23 14:51	02/17/23 21:17	7440-23-5	
Calcium	<b>37.6</b>	mg/L	1.0	0.12	1	02/17/23 14:51	02/17/23 21:17	7440-70-2	
Magnesium	<b>11.4</b>	mg/L	0.050	0.012	1	02/17/23 14:51	02/17/23 21:17	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/20/23 09:31	02/20/23 17:11	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 09:31	02/20/23 17:11	7440-38-2	
Barium	<b>0.057</b>	mg/L	0.0050	0.00067	1	02/20/23 09:31	02/20/23 17:11	7440-39-3	
Beryllium	<b>0.000073J</b>	mg/L	0.00050	0.000054	1	02/20/23 09:31	02/20/23 17:11	7440-41-7	
Boron	<b>0.67</b>	mg/L	0.040	0.0086	1	02/20/23 09:31	02/20/23 17:11	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/20/23 09:31	02/20/23 17:11	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 09:31	02/20/23 17:11	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/20/23 09:31	02/20/23 17:11	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 09:31	02/20/23 17:11	7439-92-1	
Lithium	<b>0.012J</b>	mg/L	0.030	0.00073	1	02/20/23 09:31	02/20/23 17:11	7439-93-2	
Molybdenum	<b>0.0014J</b>	mg/L	0.010	0.00074	1	02/20/23 09:31	02/20/23 17:11	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 09:31	02/20/23 17:11	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 09:31	02/20/23 17:11	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/23/23 15:10	02/24/23 07:55	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>416</b>	mg/L	25.0	25.0	1		02/08/23 18:55		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	<b>88.2</b>	mg/L	5.0	5.0	1		02/14/23 18:20		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/14/23 18:20		
Alkalinity, Total as CaCO3	<b>88.2</b>	mg/L	5.0	5.0	1		02/14/23 18:20		

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### ANALYTICAL RESULTS

Project: Plant McD AP-2, 3/4 Assessment  
 Pace Project No.: 92650182

Sample: MCD-B-109D		Lab ID: 92650182013		Collected: 02/06/23 11:50		Received: 02/07/23 11:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	3.5	mg/L	1.0	0.60	1		02/09/23 15:51	16887-00-6	
Fluoride	0.14	mg/L	0.10	0.050	1		02/09/23 15:51	16984-48-8	
Sulfate	111	mg/L	2.0	1.0	2		02/10/23 01:12	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

**Sample: MCD-B-115D**      **Lab ID: 92650182014**      Collected: 02/06/23 16:24      Received: 02/07/23 11:10      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				

**Monitoring Well Data**

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>Client</b>				1	02/14/23 16:53			
Collected Date	<b>02/06/23</b>				1	02/14/23 16:53			
Collected Time	<b>16:29</b>				1	02/14/23 16:53			
pH	<b>4.90</b>	Std. Units			1	02/14/23 16:53			

**6010D ATL ICP**

Analytical Method: EPA 6010D      Preparation Method: EPA 3010A  
Pace Analytical Services - Peachtree Corners, GA

Iron	<b>0.17</b>	mg/L	0.040	0.025	1	02/17/23 14:51	02/17/23 21:22	7439-89-6
Potassium	<b>16.6</b>	mg/L	0.20	0.15	1	02/17/23 14:51	02/17/23 21:22	7440-09-7
Sodium	<b>30.4</b>	mg/L	1.0	0.58	1	02/17/23 14:51	02/17/23 21:22	7440-23-5
Calcium	<b>54.4</b>	mg/L	1.0	0.12	1	02/17/23 14:51	02/17/23 21:22	7440-70-2
Magnesium	<b>17.4</b>	mg/L	0.050	0.012	1	02/17/23 14:51	02/17/23 21:22	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	02/20/23 09:31	02/20/23 17:17	7440-36-0
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 09:31	02/20/23 17:17	7440-38-2
Barium	<b>0.017</b>	mg/L	0.0050	0.00067	1	02/20/23 09:31	02/20/23 17:17	7440-39-3
Beryllium	<b>0.011</b>	mg/L	0.00050	0.000054	1	02/20/23 09:31	02/20/23 17:17	7440-41-7
Boron	<b>0.65</b>	mg/L	0.040	0.0086	1	02/20/23 09:31	02/20/23 17:17	7440-42-8
Cadmium	<b>0.00049J</b>	mg/L	0.00050	0.00011	1	02/20/23 09:31	02/20/23 17:17	7440-43-9
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 09:31	02/20/23 17:17	7440-47-3
Cobalt	<b>0.27</b>	mg/L	0.0050	0.00039	1	02/20/23 09:31	02/20/23 17:17	7440-48-4
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 09:31	02/20/23 17:17	7439-92-1
Lithium	<b>0.082</b>	mg/L	0.030	0.00073	1	02/20/23 09:31	02/20/23 17:17	7439-93-2
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 09:31	02/20/23 17:17	7439-98-7
Selenium	<b>0.0051</b>	mg/L	0.0050	0.0014	1	02/20/23 09:31	02/20/23 17:17	7782-49-2
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 09:31	02/20/23 17:17	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	0.00013	1	02/23/23 15:10	02/24/23 07:58	7439-97-6
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**2540C Total Dissolved Solids**

Analytical Method: SM 2540C-2015  
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	<b>550</b>	mg/L	25.0	25.0	1	02/08/23 18:55		
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**2320B Alkalinity**

Analytical Method: SM 2320B-2011  
Pace Analytical Services - Asheville

Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1	02/09/23 23:17		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1	02/09/23 23:17		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1	02/09/23 23:17		

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**ANALYTICAL RESULTS**

Project: Plant McD AP-2, 3/4 Assessment  
 Pace Project No.: 92650182

**Sample: MCD-B-115D**      **Lab ID: 92650182014**      Collected: 02/06/23 16:24      Received: 02/07/23 11:10      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>19.9</b>	mg/L	1.0	0.60	1		02/09/23 16:05	16887-00-6	
Fluoride	<b>0.85</b>	mg/L	0.10	0.050	1		02/09/23 16:05	16984-48-8	
Sulfate	<b>296</b>	mg/L	6.0	3.0	6		02/10/23 01:26	14808-79-8	M1

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### ANALYTICAL RESULTS

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

Sample: MCD-B-122D Lab ID: 92650182015 Collected: 02/06/23 10:50 Received: 02/07/23 11:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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#### Monitoring Well Data

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	Client				1		02/14/23 16:55		
Collected Date	02/06/23				1		02/14/23 16:55		
Collected Time	10:55				1		02/14/23 16:55		
pH	6.08	Std. Units			1		02/14/23 16:55		

#### 6010D ATL ICP

Analytical Method: EPA 6010D Preparation Method: EPA 3010A  
Pace Analytical Services - Peachtree Corners, GA

Iron	11.4	mg/L	0.040	0.025	1	02/17/23 14:51	02/17/23 21:27	7439-89-6	
Potassium	3.5	mg/L	0.20	0.15	1	02/17/23 14:51	02/17/23 21:27	7440-09-7	
Sodium	25.6	mg/L	1.0	0.58	1	02/17/23 14:51	02/17/23 21:27	7440-23-5	
Calcium	47.3	mg/L	1.0	0.12	1	02/17/23 14:51	02/17/23 21:27	7440-70-2	
Magnesium	9.5	mg/L	0.050	0.012	1	02/17/23 14:51	02/17/23 21:27	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	02/20/23 09:31	02/20/23 17:23	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 09:31	02/20/23 17:23	7440-38-2	
Barium	0.040	mg/L	0.0050	0.00067	1	02/20/23 09:31	02/20/23 17:23	7440-39-3	
Beryllium	0.00034J	mg/L	0.00050	0.000054	1	02/20/23 09:31	02/20/23 17:23	7440-41-7	
Boron	0.26	mg/L	0.040	0.0086	1	02/20/23 09:31	02/20/23 17:23	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/20/23 09:31	02/20/23 17:23	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 09:31	02/20/23 17:23	7440-47-3	
Cobalt	0.0070	mg/L	0.0050	0.00039	1	02/20/23 09:31	02/20/23 17:23	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 09:31	02/20/23 17:23	7439-92-1	
Lithium	0.014J	mg/L	0.030	0.00073	1	02/20/23 09:31	02/20/23 17:23	7439-93-2	
Molybdenum	0.0011J	mg/L	0.010	0.00074	1	02/20/23 09:31	02/20/23 17:23	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 09:31	02/20/23 17:23	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 09:31	02/20/23 17:23	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	0.00013	1	02/23/23 15:10	02/24/23 08:00	7439-97-6	
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#### 2540C Total Dissolved Solids

Analytical Method: SM 2540C-2015  
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	392	mg/L	25.0	25.0	1		02/08/23 18:56		
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#### 2320B Alkalinity

Analytical Method: SM 2320B-2011  
Pace Analytical Services - Asheville

Alkalinity,Bicarbonate (CaCO3)	112	mg/L	5.0	5.0	1		02/10/23 08:24		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/10/23 08:24		
Alkalinity, Total as CaCO3	112	mg/L	5.0	5.0	1		02/10/23 08:24		

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### ANALYTICAL RESULTS

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

Sample: MCD-B-122D Lab ID: 92650182015 Collected: 02/06/23 10:50 Received: 02/07/23 11:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	15.4	mg/L	1.0	0.60	1		02/09/23 16:48	16887-00-6	
Fluoride	0.21	mg/L	0.10	0.050	1		02/09/23 16:48	16984-48-8	
Sulfate	108	mg/L	2.0	1.0	2		02/10/23 02:09	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

**Sample: MCD-B-56**      **Lab ID: 92650182016**      Collected: 02/07/23 16:43      Received: 02/08/23 13:58      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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**Monitoring Well Data**

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>Client</b>				1		02/14/23 16:59		
Collected Date	<b>02/07/23</b>				1		02/14/23 16:59		
Collected Time	<b>16:48</b>				1		02/14/23 16:59		
pH	<b>4.55</b>	Std. Units			1		02/14/23 16:59		

**6010D ATL ICP**

Analytical Method: EPA 6010D      Preparation Method: EPA 3010A  
Pace Analytical Services - Peachtree Corners, GA

Iron	<b>0.071</b>	mg/L	0.040	0.025	1	02/17/23 14:51	02/17/23 21:32	7439-89-6	
Potassium	<b>5.2</b>	mg/L	0.20	0.15	1	02/17/23 14:51	02/17/23 21:32	7440-09-7	
Sodium	<b>21.0</b>	mg/L	1.0	0.58	1	02/17/23 14:51	02/17/23 21:32	7440-23-5	
Calcium	<b>20.1</b>	mg/L	1.0	0.12	1	02/17/23 14:51	02/17/23 21:32	7440-70-2	
Magnesium	<b>35.6</b>	mg/L	0.050	0.012	1	02/17/23 14:51	02/17/23 21:32	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	02/20/23 09:31	02/20/23 17:41	7440-36-0	
Arsenic	<b>0.0050J</b>	mg/L	0.0050	0.0022	1	02/20/23 09:31	02/20/23 17:41	7440-38-2	
Barium	<b>0.027</b>	mg/L	0.0050	0.00067	1	02/20/23 09:31	02/20/23 17:41	7440-39-3	
Beryllium	<b>0.0012</b>	mg/L	0.00050	0.000054	1	02/20/23 09:31	02/20/23 17:41	7440-41-7	
Boron	<b>1.5</b>	mg/L	0.040	0.0086	1	02/20/23 09:31	02/20/23 17:41	7440-42-8	
Cadmium	<b>0.00036J</b>	mg/L	0.00050	0.00011	1	02/20/23 09:31	02/20/23 17:41	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 09:31	02/20/23 17:41	7440-47-3	
Cobalt	<b>0.059</b>	mg/L	0.0050	0.00039	1	02/20/23 09:31	02/20/23 17:41	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 09:31	02/20/23 17:41	7439-92-1	
Lithium	<b>0.0054J</b>	mg/L	0.030	0.00073	1	02/20/23 09:31	02/20/23 17:41	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 09:31	02/20/23 17:41	7439-98-7	
Selenium	<b>0.010</b>	mg/L	0.0050	0.0014	1	02/20/23 09:31	02/20/23 17:41	7782-49-2	
Thallium	<b>0.00028J</b>	mg/L	0.0010	0.00018	1	02/20/23 09:31	02/20/23 17:41	7440-28-0	

**7470 Mercury**

Analytical Method: EPA 7470A      Preparation Method: EPA 7470A  
Pace Analytical Services - Peachtree Corners, GA

Mercury	<b>0.00034</b>	mg/L	0.00020	0.00013	1	02/23/23 15:10	02/24/23 08:03	7439-97-6	
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**2540C Total Dissolved Solids**

Analytical Method: SM 2540C-2015  
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	<b>379</b>	mg/L	25.0	25.0	1		02/13/23 11:02		
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**2320B Alkalinity**

Analytical Method: SM 2320B-2011  
Pace Analytical Services - Asheville

Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/15/23 19:56		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/15/23 19:56		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		02/15/23 19:56		

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### ANALYTICAL RESULTS

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

Sample: MCD-B-56 Lab ID: 92650182016 Collected: 02/07/23 16:43 Received: 02/08/23 13:58 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	6.9	mg/L	1.0	0.60	1		02/11/23 01:13	16887-00-6	
Fluoride	0.19	mg/L	0.10	0.050	1		02/11/23 01:13	16984-48-8	
Sulfate	247	mg/L	5.0	2.5	5		02/11/23 07:08	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

**Sample: MCD-B-66**      **Lab ID: 92650182017**      Collected: 02/07/23 14:25      Received: 02/08/23 13:58      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>Monitoring Well Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Client</b>				1		02/14/23 17:02		
Collected Date	<b>02/07/23</b>				1		02/14/23 17:02		
Collected Time	<b>14:30</b>				1		02/14/23 17:02		
pH	<b>6.22</b>	Std. Units			1		02/14/23 17:02		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D      Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	<b>1.6</b>	mg/L	0.040	0.025	1	02/17/23 14:51	02/17/23 21:37	7439-89-6	
Potassium	<b>4.9</b>	mg/L	0.20	0.15	1	02/17/23 14:51	02/17/23 21:37	7440-09-7	
Sodium	<b>28.3</b>	mg/L	1.0	0.58	1	02/17/23 14:51	02/17/23 21:37	7440-23-5	
Calcium	<b>45.3</b>	mg/L	1.0	0.12	1	02/17/23 14:51	02/17/23 21:37	7440-70-2	
Magnesium	<b>40.5</b>	mg/L	0.050	0.012	1	02/17/23 14:51	02/17/23 21:37	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B      Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/20/23 09:31	02/20/23 17:47	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 09:31	02/20/23 17:47	7440-38-2	
Barium	<b>0.023</b>	mg/L	0.0050	0.00067	1	02/20/23 09:31	02/20/23 17:47	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/20/23 09:31	02/20/23 17:47	7440-41-7	
Boron	<b>2.1</b>	mg/L	0.040	0.0086	1	02/20/23 09:31	02/20/23 17:47	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/20/23 09:31	02/20/23 17:47	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 09:31	02/20/23 17:47	7440-47-3	
Cobalt	<b>0.015</b>	mg/L	0.0050	0.00039	1	02/20/23 09:31	02/20/23 17:47	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 09:31	02/20/23 17:47	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/20/23 09:31	02/20/23 17:47	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 09:31	02/20/23 17:47	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 09:31	02/20/23 17:47	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 09:31	02/20/23 17:47	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A      Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	<b>0.00029</b>	mg/L	0.00020	0.00013	1	02/23/23 15:10	02/24/23 08:05	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>497</b>	mg/L	25.0	25.0	1		02/13/23 11:02		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	<b>76.0</b>	mg/L	5.0	5.0	1		02/15/23 20:01		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/15/23 20:01		
Alkalinity, Total as CaCO3	<b>76.0</b>	mg/L	5.0	5.0	1		02/15/23 20:01		

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### ANALYTICAL RESULTS

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

Sample: MCD-B-66 Lab ID: 92650182017 Collected: 02/07/23 14:25 Received: 02/08/23 13:58 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	8.7	mg/L	1.0	0.60	1		02/11/23 01:28	16887-00-6	
Fluoride	0.12	mg/L	0.10	0.050	1		02/11/23 01:28	16984-48-8	
Sulfate	276	mg/L	5.0	2.5	5		02/11/23 07:23	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

**Sample: MCD-B-82**      **Lab ID: 92650182018**      Collected: 02/07/23 11:38      Received: 02/08/23 13:58      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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**Monitoring Well Data**

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>Client</b>				1		02/14/23 17:04		
Collected Date	<b>02/07/23</b>				1		02/14/23 17:04		
Collected Time	<b>11:43</b>				1		02/14/23 17:04		
pH	<b>5.28</b>	Std. Units			1		02/14/23 17:04		

**6010D ATL ICP**

Analytical Method: EPA 6010D      Preparation Method: EPA 3010A  
Pace Analytical Services - Peachtree Corners, GA

Iron	<b>0.12</b>	mg/L	0.040	0.025	1	02/17/23 14:51	02/17/23 21:51	7439-89-6	
Sodium	<b>15.8</b>	mg/L	1.0	0.58	1	02/17/23 14:51	02/17/23 21:51	7440-23-5	
Calcium	<b>37.0</b>	mg/L	1.0	0.12	1	02/17/23 14:51	02/17/23 21:51	7440-70-2	
Magnesium	<b>74.3</b>	mg/L	0.050	0.012	1	02/17/23 14:51	02/17/23 21:51	7439-95-4	
Potassium	<b>5.6</b>	mg/L	0.20	0.15	1	02/17/23 14:51	02/20/23 15:35	7440-09-7	

**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	02/20/23 09:31	02/20/23 17:53	7440-36-0	
Arsenic	<b>0.0040J</b>	mg/L	0.0050	0.0022	1	02/20/23 09:31	02/20/23 17:53	7440-38-2	
Barium	<b>0.023</b>	mg/L	0.0050	0.00067	1	02/20/23 09:31	02/20/23 17:53	7440-39-3	
Beryllium	<b>0.0018</b>	mg/L	0.00050	0.000054	1	02/20/23 09:31	02/20/23 17:53	7440-41-7	
Boron	<b>0.53</b>	mg/L	0.040	0.0086	1	02/20/23 09:31	02/20/23 17:53	7440-42-8	
Cadmium	<b>0.00081</b>	mg/L	0.00050	0.00011	1	02/20/23 09:31	02/20/23 17:53	7440-43-9	
Chromium	<b>0.0013J</b>	mg/L	0.0050	0.0011	1	02/20/23 09:31	02/20/23 17:53	7440-47-3	
Cobalt	<b>0.0028J</b>	mg/L	0.0050	0.00039	1	02/20/23 09:31	02/20/23 17:53	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 09:31	02/20/23 17:53	7439-92-1	
Lithium	<b>0.00073J</b>	mg/L	0.030	0.00073	1	02/20/23 09:31	02/20/23 17:53	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 09:31	02/20/23 17:53	7439-98-7	
Selenium	<b>0.0025J</b>	mg/L	0.0050	0.0014	1	02/20/23 09:31	02/20/23 17:53	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 09:31	02/20/23 17:53	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	0.00013	1	02/23/23 15:10	02/24/23 08:08	7439-97-6	
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**2540C Total Dissolved Solids**

Analytical Method: SM 2540C-2015  
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	<b>611</b>	mg/L	25.0	25.0	1		02/13/23 11:04		
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**2320B Alkalinity**

Analytical Method: SM 2320B-2011  
Pace Analytical Services - Asheville

Alkalinity,Bicarbonate (CaCO3)	<b>11.6</b>	mg/L	5.0	5.0	1		02/15/23 20:09		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/15/23 20:09		
Alkalinity, Total as CaCO3	<b>11.6</b>	mg/L	5.0	5.0	1		02/15/23 20:09		

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**ANALYTICAL RESULTS**

Project: Plant McD AP-2, 3/4 Assessment  
 Pace Project No.: 92650182

**Sample: MCD-B-82**      **Lab ID: 92650182018**      Collected: 02/07/23 11:38      Received: 02/08/23 13:58      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>12.1</b>	mg/L	1.0	0.60	1		02/11/23 02:27	16887-00-6	
Fluoride	<b>0.086J</b>	mg/L	0.10	0.050	1		02/11/23 02:27	16984-48-8	
Sulfate	<b>402</b>	mg/L	8.0	4.0	8		02/11/23 07:37	14808-79-8	

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## ANALYTICAL RESULTS

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

Sample: MCD-B-88 Lab ID: 92650182019 Collected: 02/07/23 14:35 Received: 02/08/23 13:58 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>Monitoring Well Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Client</b>				1		02/14/23 17:06		
Collected Date	<b>02/0723</b>				1		02/14/23 17:06		
Collected Time	<b>14:40</b>				1		02/14/23 17:06		
pH	<b>5.59</b>	Std. Units			1		02/14/23 17:06		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	<b>0.095</b>	mg/L	0.040	0.025	1	02/17/23 14:51	02/17/23 21:56	7439-89-6	
Sodium	<b>25.0</b>	mg/L	1.0	0.58	1	02/17/23 14:51	02/17/23 21:56	7440-23-5	
Calcium	<b>92.4</b>	mg/L	1.0	0.12	1	02/17/23 14:51	02/17/23 21:56	7440-70-2	
Magnesium	<b>33.6</b>	mg/L	0.050	0.012	1	02/17/23 14:51	02/17/23 21:56	7439-95-4	
Potassium	<b>9.2</b>	mg/L	0.20	0.15	1	02/17/23 14:51	02/20/23 15:40	7440-09-7	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/20/23 09:31	02/20/23 17:59	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 09:31	02/20/23 17:59	7440-38-2	
Barium	<b>0.017</b>	mg/L	0.0050	0.00067	1	02/20/23 09:31	02/20/23 17:59	7440-39-3	
Beryllium	<b>0.0016</b>	mg/L	0.00050	0.000054	1	02/20/23 09:31	02/20/23 17:59	7440-41-7	
Boron	<b>2.3</b>	mg/L	0.040	0.0086	1	02/20/23 09:31	02/20/23 17:59	7440-42-8	
Cadmium	<b>0.0033</b>	mg/L	0.00050	0.00011	1	02/20/23 09:31	02/20/23 17:59	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 09:31	02/20/23 17:59	7440-47-3	
Cobalt	<b>0.0031J</b>	mg/L	0.0050	0.00039	1	02/20/23 09:31	02/20/23 17:59	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 09:31	02/20/23 17:59	7439-92-1	
Lithium	<b>0.0071J</b>	mg/L	0.030	0.00073	1	02/20/23 09:31	02/20/23 17:59	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 09:31	02/20/23 17:59	7439-98-7	
Selenium	<b>0.0024J</b>	mg/L	0.0050	0.0014	1	02/20/23 09:31	02/20/23 17:59	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 09:31	02/20/23 17:59	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/23/23 15:10	02/24/23 08:11	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>685</b>	mg/L	25.0	25.0	1		02/13/23 11:04		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	<b>12.5</b>	mg/L	5.0	5.0	1		02/15/23 20:14		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/15/23 20:14		
Alkalinity, Total as CaCO3	<b>12.5</b>	mg/L	5.0	5.0	1		02/15/23 20:14		

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### ANALYTICAL RESULTS

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

**Sample: MCD-B-88**      **Lab ID: 92650182019**      Collected: 02/07/23 14:35      Received: 02/08/23 13:58      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	8.4	mg/L	1.0	0.60	1		02/11/23 02:42	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/11/23 02:42	16984-48-8	
Sulfate	435	mg/L	9.0	4.5	9		02/11/23 08:37	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

**Sample: MCD-B-106D**      **Lab ID: 92650182020**      Collected: 02/07/23 15:45      Received: 02/08/23 13:58      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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**Monitoring Well Data**

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>Client</b>				1		02/14/23 17:08		
Collected Date	<b>02/07/23</b>				1		02/14/23 17:08		
Collected Time	<b>15:50</b>				1		02/14/23 17:08		
pH	<b>5.86</b>	Std. Units			1		02/14/23 17:08		

**6010D ATL ICP**

Analytical Method: EPA 6010D      Preparation Method: EPA 3010A  
Pace Analytical Services - Peachtree Corners, GA

Potassium	<b>3.4</b>	mg/L	0.20	0.15	1	02/17/23 14:51	02/20/23 15:45	7440-09-7	
Iron	<b>0.026J</b>	mg/L	0.040	0.025	1	02/17/23 14:51	02/17/23 22:01	7439-89-6	
Sodium	<b>13.0</b>	mg/L	1.0	0.58	1	02/17/23 14:51	02/17/23 22:01	7440-23-5	
Calcium	<b>30.7</b>	mg/L	1.0	0.12	1	02/17/23 14:51	02/17/23 22:01	7440-70-2	
Magnesium	<b>15.0</b>	mg/L	0.050	0.012	1	02/17/23 14:51	02/17/23 22:01	7439-95-4	

**6020 MET ICPMS**

Analytical Method: EPA 6020B      Preparation Method: EPA 3005A  
Pace Analytical Services - Peachtree Corners, GA

Antimony	ND	mg/L	0.0030	0.00078	1	02/20/23 09:31	02/20/23 18:11	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 09:31	02/20/23 18:11	7440-38-2	
Barium	<b>0.022</b>	mg/L	0.0050	0.00067	1	02/20/23 09:31	02/20/23 18:11	7440-39-3	
Beryllium	<b>0.00084J</b>	mg/L	0.00050	0.000054	1	02/20/23 09:31	02/20/23 18:11	7440-41-7	
Boron	<b>0.95</b>	mg/L	0.040	0.0086	1	02/20/23 09:31	02/20/23 18:11	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/20/23 09:31	02/20/23 18:11	7440-43-9	
Chromium	<b>0.0013J</b>	mg/L	0.0050	0.0011	1	02/20/23 09:31	02/20/23 18:11	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/20/23 09:31	02/20/23 18:11	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 09:31	02/20/23 18:11	7439-92-1	
Lithium	<b>0.0053J</b>	mg/L	0.030	0.00073	1	02/20/23 09:31	02/20/23 18:11	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 09:31	02/20/23 18:11	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 09:31	02/20/23 18:11	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 09:31	02/20/23 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	0.00013	1	02/23/23 15:10	02/24/23 08:13	7439-97-6	
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**2540C Total Dissolved Solids**

Analytical Method: SM 2540C-2015  
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	<b>246</b>	mg/L	25.0	25.0	1		02/13/23 11:04		
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**2320B Alkalinity**

Analytical Method: SM 2320B-2011  
Pace Analytical Services - Asheville

Alkalinity,Bicarbonate (CaCO3)	<b>30.7</b>	mg/L	5.0	5.0	1		02/15/23 20:20		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/15/23 20:20		
Alkalinity, Total as CaCO3	<b>30.7</b>	mg/L	5.0	5.0	1		02/15/23 20:20		

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### ANALYTICAL RESULTS

Project: Plant McD AP-2, 3/4 Assessment  
 Pace Project No.: 92650182

Sample: MCD-B-106D		Lab ID: 92650182020		Collected: 02/07/23 15:45		Received: 02/08/23 13:58		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	<b>6.8</b>	mg/L	1.0	0.60	1		02/11/23 02:57	16887-00-6	
Fluoride	<b>0.067J</b>	mg/L	0.10	0.050	1		02/11/23 02:57	16984-48-8	
Sulfate	<b>127</b>	mg/L	2.0	1.0	2		02/11/23 09:06	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

**Sample: MCD-B-108D**      **Lab ID: 92650182021**      Collected: 02/07/23 13:03      Received: 02/08/23 13:58      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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**Monitoring Well Data**

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>Client</b>				1		02/14/23 17:12		
Collected Date	<b>02/07/23</b>				1		02/14/23 17:12		
Collected Time	<b>13:08</b>				1		02/14/23 17:12		
pH	<b>5.92</b>	Std. Units			1		02/14/23 17:12		

**6010D ATL ICP**

Analytical Method: EPA 6010D      Preparation Method: EPA 3010A  
Pace Analytical Services - Peachtree Corners, GA

Iron	<b>0.37</b>	mg/L	0.040	0.025	1	02/20/23 10:59	02/20/23 19:55	7439-89-6	
Potassium	<b>5.2</b>	mg/L	0.20	0.15	1	02/20/23 10:59	02/20/23 19:55	7440-09-7	
Sodium	<b>17.1</b>	mg/L	1.0	0.58	1	02/20/23 10:59	02/20/23 19:55	7440-23-5	
Calcium	<b>83.1</b>	mg/L	1.0	0.12	1	02/20/23 10:59	02/20/23 19:55	7440-70-2	
Magnesium	<b>32.3</b>	mg/L	0.050	0.012	1	02/20/23 10:59	02/20/23 19:55	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	02/21/23 17:00	02/22/23 19:45	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/21/23 17:00	02/22/23 19:45	7440-38-2	
Barium	<b>0.051</b>	mg/L	0.0050	0.00067	1	02/21/23 17:00	02/22/23 19:45	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/21/23 17:00	02/22/23 19:45	7440-41-7	
Boron	<b>6.4</b>	mg/L	0.040	0.0086	1	02/21/23 17:00	02/22/23 19:45	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/21/23 17:00	02/22/23 19:45	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/21/23 17:00	02/22/23 19:45	7440-47-3	
Cobalt	<b>0.0010J</b>	mg/L	0.0050	0.00039	1	02/21/23 17:00	02/22/23 19:45	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/21/23 17:00	02/22/23 19:45	7439-92-1	
Lithium	<b>0.014J</b>	mg/L	0.030	0.00073	1	02/21/23 17:00	02/22/23 19:45	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/21/23 17:00	02/22/23 19:45	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/21/23 17:00	02/22/23 19:45	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/21/23 17:00	02/22/23 19:45	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	02/23/23 15:10	02/24/23 08:16	7439-97-6	
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**2540C Total Dissolved Solids**

Analytical Method: SM 2540C-2015  
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	<b>563</b>	mg/L	25.0	25.0	1		02/13/23 11:04		
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**2320B Alkalinity**

Analytical Method: SM 2320B-2011  
Pace Analytical Services - Asheville

Alkalinity, Bicarbonate (CaCO3)	<b>26.1</b>	mg/L	5.0	5.0	1		02/15/23 20:26		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/15/23 20:26		
Alkalinity, Total as CaCO3	<b>26.1</b>	mg/L	5.0	5.0	1		02/15/23 20:26		

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### ANALYTICAL RESULTS

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

**Sample: MCD-B-108D**      **Lab ID: 92650182021**      Collected: 02/07/23 13:03      Received: 02/08/23 13:58      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>27.6</b>	mg/L	1.0	0.60	1		02/11/23 03:12	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/11/23 03:12	16984-48-8	
Sulfate	<b>313</b>	mg/L	6.0	3.0	6		02/11/23 09:21	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

**Sample: MCD-B-111D**      **Lab ID: 92650182022**      Collected: 02/07/23 11:40      Received: 02/08/23 13:58      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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**Monitoring Well Data**

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>Client</b>				1		02/14/23 17:12		
Collected Date	<b>02/07/23</b>				1		02/14/23 17:12		
Collected Time	<b>11:45</b>				1		02/14/23 17:12		
pH	<b>7.30</b>	Std. Units			1		02/14/23 17:12		

**6010D ATL ICP**

Analytical Method: EPA 6010D      Preparation Method: EPA 3010A  
Pace Analytical Services - Peachtree Corners, GA

Iron	<b>2.0</b>	mg/L	0.040	0.025	1	02/20/23 10:59	02/20/23 19:59	7439-89-6	
Potassium	<b>5.6</b>	mg/L	0.20	0.15	1	02/20/23 10:59	02/20/23 19:59	7440-09-7	
Sodium	<b>39.6</b>	mg/L	1.0	0.58	1	02/20/23 10:59	02/20/23 19:59	7440-23-5	
Calcium	<b>91.5</b>	mg/L	1.0	0.12	1	02/20/23 10:59	02/20/23 19:59	7440-70-2	
Magnesium	<b>8.5</b>	mg/L	0.050	0.012	1	02/20/23 10:59	02/20/23 19:59	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	02/21/23 17:00	02/22/23 19:51	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/21/23 17:00	02/22/23 19:51	7440-38-2	
Barium	<b>0.028</b>	mg/L	0.0050	0.00067	1	02/21/23 17:00	02/22/23 19:51	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/21/23 17:00	02/22/23 19:51	7440-41-7	
Boron	<b>0.16</b>	mg/L	0.040	0.0086	1	02/21/23 17:00	02/22/23 19:51	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/21/23 17:00	02/22/23 19:51	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/21/23 17:00	02/22/23 19:51	7440-47-3	
Cobalt	<b>0.00040J</b>	mg/L	0.0050	0.00039	1	02/21/23 17:00	02/22/23 19:51	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/21/23 17:00	02/22/23 19:51	7439-92-1	
Lithium	<b>0.018J</b>	mg/L	0.030	0.00073	1	02/21/23 17:00	02/22/23 19:51	7439-93-2	
Molybdenum	<b>0.0077J</b>	mg/L	0.010	0.00074	1	02/21/23 17:00	02/22/23 19:51	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/21/23 17:00	02/22/23 19:51	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/21/23 17:00	02/22/23 19:51	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	02/23/23 15:10	02/24/23 08:24	7439-97-6	
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**2540C Total Dissolved Solids**

Analytical Method: SM 2540C-2015  
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	<b>489</b>	mg/L	25.0	25.0	1		02/13/23 11:04		
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**2320B Alkalinity**

Analytical Method: SM 2320B-2011  
Pace Analytical Services - Asheville

Alkalinity,Bicarbonate (CaCO3)	<b>109</b>	mg/L	5.0	5.0	1		02/15/23 20:32		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/15/23 20:32		
Alkalinity, Total as CaCO3	<b>109</b>	mg/L	5.0	5.0	1		02/15/23 20:32		

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### ANALYTICAL RESULTS

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

Sample: MCD-B-111D Lab ID: 92650182022 Collected: 02/07/23 11:40 Received: 02/08/23 13:58 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	9.9	mg/L	1.0	0.60	1		02/11/23 03:27	16887-00-6	
Fluoride	0.36	mg/L	0.10	0.050	1		02/11/23 03:27	16984-48-8	
Sulfate	229	mg/L	4.0	2.0	4		02/11/23 09:36	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

**Sample: MCD-AP234-EB-6**      **Lab ID: 92650182023**      Collected: 02/07/23 09:00      Received: 02/08/23 13:58      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	ND	mg/L	0.040	0.025	1	02/20/23 10:59	02/20/23 20:04	7439-89-6	
Potassium	ND	mg/L	0.20	0.15	1	02/20/23 10:59	02/20/23 20:04	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	02/20/23 10:59	02/20/23 20:04	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	02/20/23 10:59	02/20/23 20:04	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	02/20/23 10:59	02/20/23 20:04	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/21/23 17:00	02/22/23 19:57	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/21/23 17:00	02/22/23 19:57	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	02/21/23 17:00	02/22/23 19:57	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/21/23 17:00	02/22/23 19:57	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/21/23 17:00	02/22/23 19:57	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/21/23 17:00	02/22/23 19:57	7440-43-9	
Chromium	<b>0.0012J</b>	mg/L	0.0050	0.0011	1	02/21/23 17:00	02/22/23 19:57	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/21/23 17:00	02/22/23 19:57	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/21/23 17:00	02/22/23 19:57	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/21/23 17:00	02/22/23 19:57	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/21/23 17:00	02/22/23 19:57	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/21/23 17:00	02/22/23 19:57	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/21/23 17:00	02/22/23 19:57	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A    Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/23/23 15:10	02/24/23 08:26	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		02/13/23 11:04		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/15/23 20:41		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/15/23 20:41		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		02/15/23 20:41		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		02/11/23 03:42	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/11/23 03:42	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/11/23 03:42	14808-79-8	

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**ANALYTICAL RESULTS**

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

**Sample: MCD-AP234-FB-6**      **Lab ID: 92650182024**      Collected: 02/07/23 12:35      Received: 02/08/23 13:58      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	ND	mg/L	0.040	0.025	1	02/20/23 10:59	02/20/23 20:59	7439-89-6	
Potassium	ND	mg/L	0.20	0.15	1	02/20/23 10:59	02/20/23 20:59	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	02/20/23 10:59	02/20/23 20:59	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	02/20/23 10:59	02/20/23 20:59	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	02/20/23 10:59	02/20/23 20:59	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/21/23 17:00	02/22/23 20:21	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/21/23 17:00	02/22/23 20:21	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	02/21/23 17:00	02/22/23 20:21	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/21/23 17:00	02/22/23 20:21	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/21/23 17:00	02/22/23 20:21	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/21/23 17:00	02/22/23 20:21	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/21/23 17:00	02/22/23 20:21	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/21/23 17:00	02/22/23 20:21	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/21/23 17:00	02/22/23 20:21	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/21/23 17:00	02/22/23 20:21	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/21/23 17:00	02/22/23 20:21	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/21/23 17:00	02/22/23 20:21	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/21/23 17:00	02/22/23 20:21	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A    Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/23/23 15:10	02/24/23 08:29	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		02/13/23 11:40		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/16/23 11:08		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/16/23 11:08		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		02/16/23 11:08		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		02/11/23 15:09	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/11/23 15:09	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/11/23 15:09	14808-79-8	

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**ANALYTICAL RESULTS**

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

**Sample: MCD-AP234-FB-3**      **Lab ID: 92650183012**      Collected: 02/02/23 09:35      Received: 02/03/23 16:23      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	ND	mg/L	0.040	0.025	1	02/14/23 17:00	02/15/23 19:07	7439-89-6	
Potassium	ND	mg/L	0.20	0.15	1	02/14/23 17:00	02/15/23 19:07	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	02/14/23 17:00	02/15/23 19:07	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	02/14/23 17:00	02/15/23 19:07	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	02/14/23 17:00	02/15/23 19:07	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/15/23 10:18	02/16/23 15:39	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/15/23 10:18	02/16/23 15:39	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	02/15/23 10:18	02/16/23 15:39	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/15/23 10:18	02/16/23 15:39	7440-41-7	
Boron	<b>0.028J</b>	mg/L	0.040	0.0086	1	02/15/23 10:18	02/16/23 15:39	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/15/23 10:18	02/16/23 15:39	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/15/23 10:18	02/16/23 15:39	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/15/23 10:18	02/16/23 15:39	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/15/23 10:18	02/16/23 15:39	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/15/23 10:18	02/16/23 15:39	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/15/23 10:18	02/16/23 15:39	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/15/23 10:18	02/16/23 15:39	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/15/23 10:18	02/16/23 15:39	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A    Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/17/23 09:20	02/17/23 13:21	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		02/07/23 13:16		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/08/23 16:08		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/08/23 16:08		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		02/08/23 16:08		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		02/08/23 03:54	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/08/23 03:54	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/08/23 03:54	14808-79-8	

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**QUALITY CONTROL DATA**

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

QC Batch: 755832	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010D ATL
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92650183012

METHOD BLANK: 3927041 Matrix: Water

Associated Lab Samples: 92650183012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	02/15/23 17:07	
Iron	mg/L	ND	0.040	0.025	02/15/23 17:07	
Magnesium	mg/L	ND	0.050	0.012	02/15/23 17:07	
Potassium	mg/L	ND	0.20	0.15	02/15/23 17:07	
Sodium	mg/L	ND	1.0	0.58	02/15/23 17:07	

LABORATORY CONTROL SAMPLE: 3927042

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	103	80-120	
Magnesium	mg/L	1	1.0	102	80-120	
Potassium	mg/L	1	0.99	99	80-120	
Sodium	mg/L	1	1.1	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3927043 3927044

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92650180001 Result	Spike Conc.	Spike Conc.	Result						
Calcium	mg/L	70.2	1	1	69.6	71.4	-66	116	75-125	3	20 M1
Iron	mg/L	1.8	1	1	2.8	2.8	98	104	75-125	2	20
Magnesium	mg/L	24.4	1	1	24.8	25.5	42	113	75-125	3	20 M1
Potassium	mg/L	7.8	1	1	8.7	9.1	89	138	75-125	5	20 M1
Sodium	mg/L	18.4	1	1	19.0	19.5	60	112	75-125	3	20 M1

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

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**QUALITY CONTROL DATA**

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

QC Batch: 756678 Analysis Method: EPA 6010D  
 QC Batch Method: EPA 3010A Analysis Description: 6010D ATL  
 Laboratory: Pace Analytical Services - Peachtree Corners, GA  
 Associated Lab Samples: 92650182001, 92650182002, 92650182003, 92650182004, 92650182005, 92650182006, 92650182007, 92650182008, 92650182009, 92650182010, 92650182011, 92650182012, 92650182013, 92650182014, 92650182015, 92650182016, 92650182017, 92650182018, 92650182019, 92650182020

METHOD BLANK: 3931297 Matrix: Water  
 Associated Lab Samples: 92650182001, 92650182002, 92650182003, 92650182004, 92650182005, 92650182006, 92650182007, 92650182008, 92650182009, 92650182010, 92650182011, 92650182012, 92650182013, 92650182014, 92650182015, 92650182016, 92650182017, 92650182018, 92650182019, 92650182020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	02/17/23 19:36	
Iron	mg/L	ND	0.040	0.025	02/17/23 19:36	
Magnesium	mg/L	ND	0.050	0.012	02/17/23 19:36	
Potassium	mg/L	ND	0.20	0.15	02/17/23 19:36	
Sodium	mg/L	ND	1.0	0.58	02/17/23 19:36	

LABORATORY CONTROL SAMPLE: 3931298

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	102	80-120	
Iron	mg/L	1	1.0	104	80-120	
Magnesium	mg/L	1	1.1	108	80-120	
Potassium	mg/L	1	0.92	92	80-120	
Sodium	mg/L	1	1.1	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3931299 3931300

Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Calcium	mg/L	21.2	1	1	21.2	21.6	-1	32	75-125	2	20	M1	
Iron	mg/L	8.3	1	1	8.8	9.0	50	71	75-125	2	20	M1	
Magnesium	mg/L	8.0	1	1	8.6	8.8	62	80	75-125	2	20	M1	
Potassium	mg/L	2.8	1	1	3.7	3.7	95	97	75-125	0	20		
Sodium	mg/L	11.0	1	1	11.5	11.6	47	59	75-125	1	20	M1	

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**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL DATA**

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

QC Batch:	756896	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92650182021, 92650182022, 92650182023, 92650182024

METHOD BLANK: 3932253 Matrix: Water  
 Associated Lab Samples: 92650182021, 92650182022, 92650182023, 92650182024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	02/20/23 19:02	
Iron	mg/L	ND	0.040	0.025	02/20/23 19:02	
Magnesium	mg/L	ND	0.050	0.012	02/20/23 19:02	
Potassium	mg/L	ND	0.20	0.15	02/20/23 19:02	
Sodium	mg/L	ND	1.0	0.58	02/20/23 19:02	

LABORATORY CONTROL SAMPLE: 3932254

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.99J	99	80-120	
Iron	mg/L	1	0.99	99	80-120	
Magnesium	mg/L	1	1.0	101	80-120	
Potassium	mg/L	1	1.0	100	80-120	
Sodium	mg/L	1	1.1	109	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3932255 3932256

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92650181022 Result	Spike Conc.	Spike Conc.	Conc.								
Calcium	mg/L	28.3	1	1	29.8	29.7	143	138	75-125	0	20	M1	
Iron	mg/L	23.7	1	1	25.0	25.0	133	135	75-125	0	20	M1	
Magnesium	mg/L	16.7	1	1	18.0	18.0	130	135	75-125	0	20	M1	
Potassium	mg/L	7.1	1	1	8.4	8.4	125	132	75-125	1	20	M1	
Sodium	mg/L	9.8	1	1	10.9	10.9	114	115	75-125	0	20		

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**QUALITY CONTROL DATA**

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

QC Batch:	755857	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3005A	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92650183012

METHOD BLANK: 3927212 Matrix: Water

Associated Lab Samples: 92650183012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	02/16/23 12:50	
Arsenic	mg/L	ND	0.0050	0.0022	02/16/23 12:50	
Barium	mg/L	ND	0.0050	0.00067	02/16/23 12:50	
Beryllium	mg/L	ND	0.00050	0.000054	02/16/23 12:50	
Boron	mg/L	ND	0.040	0.0086	02/16/23 12:50	
Cadmium	mg/L	ND	0.00050	0.00011	02/16/23 12:50	
Chromium	mg/L	ND	0.0050	0.0011	02/16/23 12:50	
Cobalt	mg/L	ND	0.0050	0.00039	02/16/23 12:50	
Lead	mg/L	ND	0.0010	0.00089	02/16/23 12:50	
Lithium	mg/L	ND	0.030	0.00073	02/16/23 12:50	
Molybdenum	mg/L	ND	0.010	0.00074	02/16/23 12:50	
Selenium	mg/L	ND	0.0050	0.0014	02/16/23 12:50	
Thallium	mg/L	ND	0.0010	0.00018	02/16/23 12:50	

LABORATORY CONTROL SAMPLE: 3927213

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	107	80-120	
Arsenic	mg/L	0.1	0.099	99	80-120	
Barium	mg/L	0.1	0.098	98	80-120	
Beryllium	mg/L	0.1	0.096	96	80-120	
Boron	mg/L	1	0.99	99	80-120	
Cadmium	mg/L	0.1	0.096	96	80-120	
Chromium	mg/L	0.1	0.10	100	80-120	
Cobalt	mg/L	0.1	0.098	98	80-120	
Lead	mg/L	0.1	0.099	99	80-120	
Lithium	mg/L	0.1	0.097	97	80-120	
Molybdenum	mg/L	0.1	0.10	101	80-120	
Selenium	mg/L	0.1	0.098	98	80-120	
Thallium	mg/L	0.1	0.098	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3927214 3927215

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		92650179003	Result	Spike Conc.	Spike Conc.							
Antimony	mg/L	ND	0.1	0.1	0.1	0.092	111	91	75-125	19	20	
Arsenic	mg/L	0.0029J	0.1	0.1	0.11	0.098	104	95	75-125	9	20	

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**QUALITY CONTROL DATA**

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

Parameter	Units	3927214		3927215		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		92650179003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
Barium	mg/L	0.089	0.1	0.1	0.19	0.19	102	97	75-125	3	20	
Beryllium	mg/L	0.00016J	0.1	0.1	0.10	0.097	105	97	75-125	7	20	
Boron	mg/L	0.051	1	1	1.1	1.0	108	99	75-125	8	20	
Cadmium	mg/L	0.00019J	0.1	0.1	0.10	0.096	102	96	75-125	6	20	
Chromium	mg/L	ND	0.1	0.1	0.11	0.10	111	99	75-125	12	20	
Cobalt	mg/L	0.0080	0.1	0.1	0.12	0.11	108	98	75-125	9	20	
Lead	mg/L	ND	0.1	0.1	0.10	0.097	102	97	75-125	5	20	
Lithium	mg/L	0.0088J	0.1	0.1	0.12	0.11	107	99	75-125	8	20	
Molybdenum	mg/L	0.023	0.1	0.1	0.13	0.12	111	102	75-125	7	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.096	103	96	75-125	7	20	
Thallium	mg/L	ND	0.1	0.1	0.10	0.098	102	98	75-125	4	20	

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**QUALITY CONTROL DATA**

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

QC Batch:	756674	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3005A	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92650182001, 92650182002, 92650182003, 92650182004, 92650182005, 92650182006, 92650182007, 92650182008, 92650182009, 92650182010, 92650182011, 92650182012, 92650182013, 92650182014, 92650182015, 92650182016, 92650182017, 92650182018, 92650182019, 92650182020

METHOD BLANK:	3931288	Matrix:	Water
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Associated Lab Samples: 92650182001, 92650182002, 92650182003, 92650182004, 92650182005, 92650182006, 92650182007, 92650182008, 92650182009, 92650182010, 92650182011, 92650182012, 92650182013, 92650182014, 92650182015, 92650182016, 92650182017, 92650182018, 92650182019, 92650182020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	02/20/23 15:01	
Arsenic	mg/L	ND	0.0050	0.0022	02/20/23 15:01	
Barium	mg/L	ND	0.0050	0.00067	02/20/23 15:01	
Beryllium	mg/L	ND	0.00050	0.000054	02/20/23 15:01	
Boron	mg/L	ND	0.040	0.0086	02/20/23 15:01	
Cadmium	mg/L	ND	0.00050	0.00011	02/20/23 15:01	
Chromium	mg/L	ND	0.0050	0.0011	02/20/23 15:01	
Cobalt	mg/L	ND	0.0050	0.00039	02/20/23 15:01	
Lead	mg/L	ND	0.0010	0.00089	02/20/23 15:01	
Lithium	mg/L	ND	0.030	0.00073	02/20/23 15:01	
Molybdenum	mg/L	ND	0.010	0.00074	02/20/23 15:01	
Selenium	mg/L	ND	0.0050	0.0014	02/20/23 15:01	
Thallium	mg/L	ND	0.0010	0.00018	02/20/23 15:01	

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	0.11	105	80-120	
Barium	mg/L	0.1	0.11	106	80-120	
Beryllium	mg/L	0.1	0.11	108	80-120	
Boron	mg/L	1	1.1	106	80-120	
Cadmium	mg/L	0.1	0.10	105	80-120	
Chromium	mg/L	0.1	0.11	106	80-120	
Cobalt	mg/L	0.1	0.11	106	80-120	
Lead	mg/L	0.1	0.11	108	80-120	
Lithium	mg/L	0.1	0.11	110	80-120	
Molybdenum	mg/L	0.1	0.11	108	80-120	
Selenium	mg/L	0.1	0.10	105	80-120	
Thallium	mg/L	0.1	0.11	113	80-120	

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**QUALITY CONTROL DATA**

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

Parameter	Units	3931290		3931291		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		92650182001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	115	110	75-125	5	20		
Arsenic	mg/L	0.0023J	0.1	0.1	0.11	0.11	105	104	75-125	1	20		
Barium	mg/L	0.015	0.1	0.1	0.12	0.12	109	105	75-125	3	20		
Beryllium	mg/L	0.017	0.1	0.1	0.11	0.11	93	92	75-125	1	20		
Boron	mg/L	2.6	1	1	3.4	3.5	85	88	75-125	1	20		
Cadmium	mg/L	0.0015	0.1	0.1	0.10	0.10	102	100	75-125	2	20		
Chromium	mg/L	ND	0.1	0.1	0.098	0.098	97	97	75-125	0	20		
Cobalt	mg/L	0.080	0.1	0.1	0.18	0.18	98	101	75-125	1	20		
Lead	mg/L	ND	0.1	0.1	0.095	0.093	95	93	75-125	2	20		
Lithium	mg/L	0.014J	0.1	0.1	0.11	0.11	96	97	75-125	1	20		
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	104	101	75-125	3	20		
Selenium	mg/L	0.0086	0.1	0.1	0.11	0.11	106	102	75-125	3	20		
Thallium	mg/L	0.00021J	0.1	0.1	0.096	0.095	96	95	75-125	1	20		

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**QUALITY CONTROL DATA**

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

QC Batch:	757280	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3005A	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92650182021, 92650182022, 92650182023, 92650182024

METHOD BLANK: 3934100 Matrix: Water

Associated Lab Samples: 92650182021, 92650182022, 92650182023, 92650182024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	02/22/23 18:34	
Arsenic	mg/L	ND	0.0050	0.0022	02/22/23 18:34	
Barium	mg/L	ND	0.0050	0.00067	02/22/23 18:34	
Beryllium	mg/L	ND	0.00050	0.000054	02/22/23 18:34	
Boron	mg/L	ND	0.040	0.0086	02/22/23 18:34	
Cadmium	mg/L	ND	0.00050	0.00011	02/22/23 18:34	
Chromium	mg/L	ND	0.0050	0.0011	02/22/23 18:34	
Cobalt	mg/L	ND	0.0050	0.00039	02/22/23 18:34	
Lead	mg/L	ND	0.0010	0.00089	02/22/23 18:34	
Lithium	mg/L	ND	0.030	0.00073	02/22/23 18:34	
Molybdenum	mg/L	ND	0.010	0.00074	02/22/23 18:34	
Selenium	mg/L	ND	0.0050	0.0014	02/22/23 18:34	
Thallium	mg/L	ND	0.0010	0.00018	02/22/23 18:34	

LABORATORY CONTROL SAMPLE: 3934101

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	108	80-120	
Arsenic	mg/L	0.1	0.10	100	80-120	
Barium	mg/L	0.1	0.10	102	80-120	
Beryllium	mg/L	0.1	0.10	103	80-120	
Boron	mg/L	1	0.99	99	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	0.10	100	80-120	
Lead	mg/L	0.1	0.10	100	80-120	
Lithium	mg/L	0.1	0.10	104	80-120	
Molybdenum	mg/L	0.1	0.10	100	80-120	
Selenium	mg/L	0.1	0.10	102	80-120	
Thallium	mg/L	0.1	0.10	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3934102 3934103

Parameter	Units	92650184005 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	109	75-125	0	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	102	104	75-125	2	20	

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**QUALITY CONTROL DATA**

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

Parameter	Units	3934102		3934103		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		92650184005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
Barium	mg/L	0.024	0.1	0.1	0.13	0.13	104	104	75-125	0	20	
Beryllium	mg/L	0.00098	0.1	0.1	0.093	0.094	92	93	75-125	2	20	
Boron	mg/L	1.9	1	1	2.8	2.8	91	93	75-125	1	20	
Cadmium	mg/L	0.00093	0.1	0.1	0.10	0.11	100	104	75-125	4	20	
Chromium	mg/L	ND	0.1	0.1	0.098	0.098	98	98	75-125	0	20	
Cobalt	mg/L	0.0043J	0.1	0.1	0.10	0.10	97	98	75-125	1	20	
Lead	mg/L	ND	0.1	0.1	0.096	0.099	96	99	75-125	3	20	
Lithium	mg/L	0.0041J	0.1	0.1	0.10	0.10	98	99	75-125	1	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	101	102	75-125	1	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.11	103	107	75-125	4	20	
Thallium	mg/L	ND	0.1	0.1	0.097	0.10	97	100	75-125	3	20	

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**QUALITY CONTROL DATA**

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

QC Batch: 756583	Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A	Analysis Description: 7470 Mercury
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92650183012

METHOD BLANK: 3930812 Matrix: Water

Associated Lab Samples: 92650183012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/17/23 12:36	

LABORATORY CONTROL SAMPLE: 3930813

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: 3930814 3930815

Parameter	Units	3930814		3930815		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92650183001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Mercury	mg/L	ND	0.0025	0.0025	0.0025	0.0023	100	92	75-125	9	20

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**QUALITY CONTROL DATA**

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

QC Batch:	757695	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples:	92650182007, 92650182008, 92650182009, 92650182010, 92650182011, 92650182012, 92650182013, 92650182014, 92650182015, 92650182016, 92650182017, 92650182018, 92650182019, 92650182020, 92650182021, 92650182022, 92650182023, 92650182024		

METHOD BLANK:	3935894	Matrix:	Water
Associated Lab Samples:	92650182007, 92650182008, 92650182009, 92650182010, 92650182011, 92650182012, 92650182013, 92650182014, 92650182015, 92650182016, 92650182017, 92650182018, 92650182019, 92650182020, 92650182021, 92650182022, 92650182023, 92650182024		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/24/23 07:21	

LABORATORY CONTROL SAMPLE:	3935895					
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:	3935896			3935897								
Parameter	Units	92650182007 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	0.0023	0.0023	89	88	75-125	1	20	

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**QUALITY CONTROL DATA**

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

QC Batch:	758311	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92650182001, 92650182002, 92650182003, 92650182004, 92650182005, 92650182006

METHOD BLANK: 3939038 Matrix: Water  
 Associated Lab Samples: 92650182001, 92650182002, 92650182003, 92650182004, 92650182005, 92650182006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/28/23 08:04	

LABORATORY CONTROL SAMPLE: 3939039

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: 3939040 3939041

Parameter	Units	92650181021		3939041		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	0.0023	92	93	75-125	1	20	

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**QUALITY CONTROL DATA**

Project: Plant McD AP-2, 3/4 Assessment  
 Pace Project No.: 92650182

QC Batch: 753740 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: 92650182001, 92650182002

METHOD BLANK: 3916052 Matrix: Water  
 Associated Lab Samples: 92650182001, 92650182002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/03/23 15:47	

LABORATORY CONTROL SAMPLE: 3916053

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	413	103	80-120	

SAMPLE DUPLICATE: 3916054

Parameter	Units	92649885002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	78.0	76.0	3	10	

SAMPLE DUPLICATE: 3916055

Parameter	Units	92649923015 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	76.0	103	30	10	D6

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**QUALITY CONTROL DATA**

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

QC Batch:	753781	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: 92650182003, 92650182004

METHOD BLANK: 3916195 Matrix: Water

Associated Lab Samples: 92650182003, 92650182004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/06/23 17:51	

LABORATORY CONTROL SAMPLE: 3916196

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	403	101	80-120	

SAMPLE DUPLICATE: 3916197

Parameter	Units	92650182003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	147	153	4	10	

SAMPLE DUPLICATE: 3916198

Parameter	Units	92650163003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	78.0	156	67	10	D6

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QUALITY CONTROL DATA

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

QC Batch: 754118

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: 92650182005, 92650182006

METHOD BLANK: 3917651

Matrix: Water

Associated Lab Samples: 92650182005, 92650182006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/07/23 18:37	

LABORATORY CONTROL SAMPLE: 3917652

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	408	102	80-120	

SAMPLE DUPLICATE: 3917653

Parameter	Units	92648451007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1950	2030	4	10 1g	

SAMPLE DUPLICATE: 3917654

Parameter	Units	92649377019 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	528	540	2	10	

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**QUALITY CONTROL DATA**

Project: Plant McD AP-2, 3/4 Assessment  
 Pace Project No.: 92650182

QC Batch: 754311 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: 92650182007, 92650182008, 92650182009, 92650182010, 92650183012

METHOD BLANK: 3918591 Matrix: Water  
 Associated Lab Samples: 92650182007, 92650182008, 92650182009, 92650182010, 92650183012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/07/23 13:13	

LABORATORY CONTROL SAMPLE: 3918592

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	415	104	80-120	

SAMPLE DUPLICATE: 3918593

Parameter	Units	92650181011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		10	

SAMPLE DUPLICATE: 3918594

Parameter	Units	92650573003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	40.0	56.0	33	10	D6

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**QUALITY CONTROL DATA**

Project: Plant McD AP-2, 3/4 Assessment  
 Pace Project No.: 92650182

QC Batch: 754576 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: 92650182011, 92650182012, 92650182013, 92650182014, 92650182015

METHOD BLANK: 3920182 Matrix: Water  
 Associated Lab Samples: 92650182011, 92650182012, 92650182013, 92650182014, 92650182015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/08/23 18:52	

LABORATORY CONTROL SAMPLE: 3920183

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	379	95	80-120	

SAMPLE DUPLICATE: 3921107

Parameter	Units	92649235040 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2550	2940	14	10	D6

SAMPLE DUPLICATE: 3921108

Parameter	Units	92649235045 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2850	2670	6	10	

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**QUALITY CONTROL DATA**

Project: Plant McD AP-2, 3/4 Assessment  
 Pace Project No.: 92650182

QC Batch: 755432 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: 92650182016, 92650182017, 92650182018, 92650182019, 92650182020, 92650182021, 92650182022, 92650182023

METHOD BLANK: 3924925 Matrix: Water  
 Associated Lab Samples: 92650182016, 92650182017, 92650182018, 92650182019, 92650182020, 92650182021, 92650182022, 92650182023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/13/23 11:02	

LABORATORY CONTROL SAMPLE: 3924926

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	389	97	80-120	

SAMPLE DUPLICATE: 3924927

Parameter	Units	92651382008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	78.0	72.0	8	10	

SAMPLE DUPLICATE: 3924928

Parameter	Units	92650182022 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	489	496	1	10	

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**QUALITY CONTROL DATA**

Project: Plant McD AP-2, 3/4 Assessment  
 Pace Project No.: 92650182

QC Batch: 755437 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: 92650182024

METHOD BLANK: 3924935 Matrix: Water  
 Associated Lab Samples: 92650182024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/13/23 11:37	

LABORATORY CONTROL SAMPLE: 3924936

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	408	102	80-120	

SAMPLE DUPLICATE: 3924937

Parameter	Units	92650181030 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	108		10	

SAMPLE DUPLICATE: 3924938

Parameter	Units	92651001002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	196	269	31	10	D6

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**QUALITY CONTROL DATA**

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

QC Batch: 753922 Analysis Method: SM 2320B-2011  
 QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity  
 Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92650182001, 92650182002, 92650182003, 92650182004

METHOD BLANK: 3916725 Matrix: Water  
 Associated Lab Samples: 92650182001, 92650182002, 92650182003, 92650182004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/04/23 16:09	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/04/23 16:09	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/04/23 16:09	

LABORATORY CONTROL SAMPLE: 3916726

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.6	99	80-120	

LABORATORY CONTROL SAMPLE: 3916727

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.7	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3916728 3916729

Parameter	Units	92649235035 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	214	50	50	284	279	141	130	80-120	2	25	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3916730 3916731

Parameter	Units	92649235036 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	160	50	50	222	218	124	117	80-120	2	25	M1

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**QUALITY CONTROL DATA**

Project: Plant McD AP-2, 3/4 Assessment  
 Pace Project No.: 92650182

QC Batch: 754359 Analysis Method: SM 2320B-2011  
 QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity  
 Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92650182005, 92650182006

METHOD BLANK: 3918898 Matrix: Water  
 Associated Lab Samples: 92650182005, 92650182006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/08/23 10:50	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/08/23 10:50	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/08/23 10:50	

LABORATORY CONTROL SAMPLE: 3918899

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

LABORATORY CONTROL SAMPLE: 3918900

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.7	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3918901 3918902

Parameter	Units	3918901		3918902		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		92650426001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Alkalinity, Total as CaCO3	mg/L	73.3	50	50	127	130	107	112	80-120	2	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3918903 3918904

Parameter	Units	3918903		3918904		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		92650426002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Alkalinity, Total as CaCO3	mg/L	11.4	50	50	59.4	61.2	96	100	80-120	3	25	

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**QUALITY CONTROL DATA**

Project: Plant McD AP-2, 3/4 Assessment  
 Pace Project No.: 92650182

QC Batch: 754413 Analysis Method: SM 2320B-2011  
 QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity  
 Laboratory: Pace Analytical Services - Asheville  
 Associated Lab Samples: 92650182007, 92650182008, 92650182009, 92650182010, 92650183012

METHOD BLANK: 3919370 Matrix: Water  
 Associated Lab Samples: 92650182007, 92650182008, 92650182009, 92650182010, 92650183012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/08/23 14:25	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/08/23 14:25	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/08/23 14:25	

LABORATORY CONTROL SAMPLE: 3919371

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.4	101	80-120	

LABORATORY CONTROL SAMPLE: 3919372

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.2	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3919373 3919374

Parameter	Units	3919373		3919374		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92650181010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Alkalinity, Total as CaCO3	mg/L	ND	50	50	50.4	50.5	101	101	80-120	0	25

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3919375 3919376

Parameter	Units	3919375		3919376		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92650181012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Alkalinity, Total as CaCO3	mg/L	ND	50	50	11.2	9.3	22	19	80-120	18	25 M1

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**QUALITY CONTROL DATA**

Project: Plant McD AP-2, 3/4 Assessment  
 Pace Project No.: 92650182

QC Batch: 754946 Analysis Method: SM 2320B-2011  
 QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity  
 Laboratory: Pace Analytical Services - Asheville  
 Associated Lab Samples: 92650182011, 92650182012, 92650182014, 92650182015

METHOD BLANK: 3922214 Matrix: Water  
 Associated Lab Samples: 92650182011, 92650182012, 92650182014, 92650182015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/09/23 20:12	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/09/23 20:12	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/09/23 20:12	

LABORATORY CONTROL SAMPLE: 3922215

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.2	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3922217 3922218

Parameter	Units	92650889001 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	114	50	50	159	160	90	92	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3922219 3922220

Parameter	Units	92650894001 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	23.5	50	50	73.2	71.8	99	97	80-120	2	25	

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**QUALITY CONTROL DATA**

Project: Plant McD AP-2, 3/4 Assessment  
 Pace Project No.: 92650182

QC Batch: 755781 Analysis Method: SM 2320B-2011  
 QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity  
 Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92650182013

METHOD BLANK: 3926612 Matrix: Water  
 Associated Lab Samples: 92650182013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/14/23 18:01	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/14/23 18:01	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/14/23 18:01	

LABORATORY CONTROL SAMPLE: 3926613

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.4	103	80-120	

LABORATORY CONTROL SAMPLE: 3926614

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.4	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3926615 3926616

Parameter	Units	3926615		3926616		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.							
Alkalinity, Total as CaCO3	mg/L	ND	50	50	51.5	50.2	103	100	80-120	3	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3926617 3926618

Parameter	Units	3926617		3926618		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.							
Alkalinity, Total as CaCO3	mg/L	69.3	50	50	121	119	104	100	80-120	2	25	

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**QUALITY CONTROL DATA**

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

QC Batch:	755797	Analysis Method:	SM 2320B-2011
QC Batch Method:	SM 2320B-2011	Analysis Description:	2320B Alkalinity
		Laboratory:	Pace Analytical Services - Asheville

Associated Lab Samples: 92650182016, 92650182017, 92650182018, 92650182019, 92650182020, 92650182021, 92650182022, 92650182023

METHOD BLANK: 3926737 Matrix: Water

Associated Lab Samples: 92650182016, 92650182017, 92650182018, 92650182019, 92650182020, 92650182021, 92650182022, 92650182023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/15/23 18:18	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/15/23 18:18	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/15/23 18:18	

LABORATORY CONTROL SAMPLE: 3926738

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.3	101	80-120	

LABORATORY CONTROL SAMPLE: 3926739

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.9	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3926740 3926741

Parameter	Units	92651415002 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	ND	50	50	53.5	53.8	102	102	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3926742 3926743

Parameter	Units	92651415003 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	10.3	50	50	62.8	63.4	105	106	80-120	1	25	

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**QUALITY CONTROL DATA**

Project: Plant McD AP-2, 3/4 Assessment  
 Pace Project No.: 92650182

QC Batch: 755965 Analysis Method: SM 2320B-2011  
 QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity  
 Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92650182024

METHOD BLANK: 3927497 Matrix: Water  
 Associated Lab Samples: 92650182024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/16/23 10:05	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/16/23 10:05	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/16/23 10:05	

LABORATORY CONTROL SAMPLE: 3927498

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.9	100	80-120	

LABORATORY CONTROL SAMPLE: 3927499

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.8	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3927500 3927501

Parameter	Units	3927500		3927501		% Rec Limits	Max RPD	Qual				
		MS Result	MSD Result	MS Result	MSD Result							
Alkalinity, Total as CaCO3	mg/L	149	50	50	207	210	116	123	80-120	2	25	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3927502 3927503

Parameter	Units	3927502		3927503		% Rec Limits	Max RPD	Qual				
		MS Result	MSD Result	MS Result	MSD Result							
Alkalinity, Total as CaCO3	mg/L	ND	50	50	50.0	50.0	100	100	80-120	0	25	

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**QUALITY CONTROL DATA**

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

QC Batch: 753991 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: 92650182001, 92650182002, 92650182003, 92650182004

METHOD BLANK: 3916900 Matrix: Water  
 Associated Lab Samples: 92650182001, 92650182002, 92650182003, 92650182004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/06/23 14:36	
Fluoride	mg/L	ND	0.10	0.050	02/06/23 14:36	
Sulfate	mg/L	ND	1.0	0.50	02/06/23 14:36	

LABORATORY CONTROL SAMPLE: 3916901

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	53.8	108	90-110	
Fluoride	mg/L	2.5	2.7	109	90-110	
Sulfate	mg/L	50	53.9	108	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3916902 3916903

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92650019010	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	4.7	50	50	55.5	56.6	102	104	90-110	2	10		
Fluoride	mg/L	2.7	2.5	2.5	4.8	4.8	87	86	90-110	0	10	M1	
Sulfate	mg/L	97.3	50	50	146	144	97	94	90-110	1	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3916904 3916905

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92650181004	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	19.2	50	50	70.5	71.4	102	104	90-110	1	10		
Fluoride	mg/L	ND	2.5	2.5	2.6	2.7	103	105	90-110	2	10		
Sulfate	mg/L	309	50	50	353	352	89	86	90-110	0	10	M1	

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**QUALITY CONTROL DATA**

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

QC Batch: 754259 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: 92650182005, 92650182006, 92650182007, 92650182008, 92650182009, 92650182010

METHOD BLANK: 3918323 Matrix: Water  
 Associated Lab Samples: 92650182005, 92650182006, 92650182007, 92650182008, 92650182009, 92650182010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/07/23 23:52	
Fluoride	mg/L	ND	0.10	0.050	02/07/23 23:52	
Sulfate	mg/L	ND	1.0	0.50	02/07/23 23:52	

LABORATORY CONTROL SAMPLE: 3918324

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.9	100	90-110	
Fluoride	mg/L	2.5	2.6	104	90-110	
Sulfate	mg/L	50	50.7	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3918325 3918326

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92650416003 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	0.93J	50	50	50.7	51.7	99	101	90-110	2	10		
Fluoride	mg/L	0.31	2.5	2.5	2.9	3.0	105	107	90-110	1	10		
Sulfate	mg/L	35.3	50	50	84.9	85.9	99	101	90-110	1	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3918327 3918328

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92650182006 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	10.8	50	50	61.1	62.2	100	103	90-110	2	10		
Fluoride	mg/L	0.091J	2.5	2.5	2.7	2.8	105	108	90-110	3	10		
Sulfate	mg/L	252	50	50	296	296	88	88	90-110	0	10 M1		

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**QUALITY CONTROL DATA**

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

QC Batch: 754261 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: 92650183012

METHOD BLANK: 3918330 Matrix: Water

Associated Lab Samples: 92650183012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/07/23 18:29	
Fluoride	mg/L	ND	0.10	0.050	02/07/23 18:29	
Sulfate	mg/L	ND	1.0	0.50	02/07/23 18:29	

LABORATORY CONTROL SAMPLE: 3918331

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.6	99	90-110	
Fluoride	mg/L	2.5	2.6	103	90-110	
Sulfate	mg/L	50	48.9	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3918332 3918333

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92650181007 Result	Spike Conc.	Spike Conc.	Result								
Chloride	mg/L	2.6	50	50	52.2	52.2	99	99	90-110	0	10		
Fluoride	mg/L	0.45	2.5	2.5	2.9	2.9	97	99	90-110	1	10		
Sulfate	mg/L	138	50	50	186	187	96	97	90-110	0	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3918334 3918335

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92650183008 Result	Spike Conc.	Spike Conc.	Result								
Chloride	mg/L	9.4	50	50	60.0	60.9	101	103	90-110	1	10		
Fluoride	mg/L	0.068J	2.5	2.5	2.5	2.6	98	101	90-110	2	10		
Sulfate	mg/L	117	50	50	166	166	98	99	90-110	0	10		

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**QUALITY CONTROL DATA**

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

QC Batch: 754806 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: 92650182011, 92650182012, 92650182013, 92650182014, 92650182015

METHOD BLANK: 3921454 Matrix: Water  
 Associated Lab Samples: 92650182011, 92650182012, 92650182013, 92650182014, 92650182015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/09/23 12:16	
Fluoride	mg/L	ND	0.10	0.050	02/09/23 12:16	
Sulfate	mg/L	ND	1.0	0.50	02/09/23 12:16	

LABORATORY CONTROL SAMPLE: 3921455

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	2.6	103	90-110	
Sulfate	mg/L	50	50.2	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3921456 3921457

Parameter	Units	92651076001		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	8.1	50	50	57.1	58.3	98	100	90-110	2	10		
Fluoride	mg/L	0.066J	2.5	2.5	2.5	2.5	96	99	90-110	3	10		
Sulfate	mg/L	6.0	50	50	55.2	56.4	98	101	90-110	2	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3921458 3921459

Parameter	Units	92650182014		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	19.9	50	50	69.2	70.0	99	100	90-110	1	10		
Fluoride	mg/L	0.85	2.5	2.5	3.5	3.5	107	108	90-110	0	10		
Sulfate	mg/L	296	50	50	334	343	75	94	90-110	3	10 M1		

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**QUALITY CONTROL DATA**

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

QC Batch:	755105	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:	92650182016, 92650182017, 92650182018, 92650182019, 92650182020, 92650182021, 92650182022, 92650182023		

METHOD BLANK:	3923321	Matrix:	Water
Associated Lab Samples:	92650182016, 92650182017, 92650182018, 92650182019, 92650182020, 92650182021, 92650182022, 92650182023		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/10/23 20:14	
Fluoride	mg/L	ND	0.10	0.050	02/10/23 20:14	
Sulfate	mg/L	ND	1.0	0.50	02/10/23 20:14	

LABORATORY CONTROL SAMPLE:	3923322					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.5	99	90-110	
Fluoride	mg/L	2.5	2.5	101	90-110	
Sulfate	mg/L	50	48.8	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	3923323	MS	MSD	3923324								
Parameter	Units	92651536005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	3.9	50	50	53.7	54.3	100	101	90-110	1	10	
Fluoride	mg/L	0.074J	2.5	2.5	2.5	2.6	98	100	90-110	2	10	
Sulfate	mg/L	5.0	50	50	53.3	54.1	97	98	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	3923325	MS	MSD	3923326								
Parameter	Units	92651382010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	7.4	50	50	55.6	56.6	97	98	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.5	2.4	2.5	93	96	90-110	4	10	
Sulfate	mg/L	0.78J	50	50	47.5	48.5	93	96	90-110	2	10	

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**QUALITY CONTROL DATA**

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

QC Batch: 755348	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: 92650182024

METHOD BLANK: 3924712 Matrix: Water

Associated Lab Samples: 92650182024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/11/23 13:13	
Fluoride	mg/L	ND	0.10	0.050	02/11/23 13:13	
Sulfate	mg/L	ND	1.0	0.50	02/11/23 13:13	

LABORATORY CONTROL SAMPLE: 3924713

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.6	97	90-110	
Fluoride	mg/L	2.5	2.4	97	90-110	
Sulfate	mg/L	50	48.7	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3924714 3924715

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92651512003 Result	Spike Conc.	Spike Conc.	Result								
Chloride	mg/L	6.1	50	50	54.1	55.5	96	99	90-110	3	10		
Fluoride	mg/L	0.086J	2.5	2.5	2.5	2.5	95	98	90-110	3	10		
Sulfate	mg/L	10.2	50	50	58.6	60.1	97	100	90-110	3	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3924716 3924717

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92651580001 Result	Spike Conc.	Spike Conc.	Result								
Chloride	mg/L	2.0	50	50	50.9	52.4	98	101	90-110	3	10		
Fluoride	mg/L	ND	2.5	2.5	2.4	2.4	93	96	90-110	4	10		
Sulfate	mg/L	78.0	50	50	120	121	83	87	90-110	1	10 M1		

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## QUALIFIERS

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

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### 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 Sample residue exceeded method SM 2540C recommended 200 mg.

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92650182001	MCD-B-92				
92650182002	MCD-B-93				
92650182003	MCD-B-98				
92650182004	MCD-B-97				
92650182005	MCD-B-63				
92650182006	MCD-B-102D				
92650182007	MCD-B-83				
92650182008	MCD-B-120D				
92650182009	MCD-B-101D				
92650182010	MCD-B-104D				
92650182011	MCD-B-77				
92650182012	MCD-B-107D				
92650182013	MCD-B-109D				
92650182014	MCD-B-115D				
92650182015	MCD-B-122D				
92650182016	MCD-B-56				
92650182017	MCD-B-66				
92650182018	MCD-B-82				
92650182019	MCD-B-88				
92650182020	MCD-B-106D				
92650182021	MCD-B-108D				
92650182022	MCD-B-111D				
92650182001	MCD-B-92	EPA 3010A	756678	EPA 6010D	756717
92650182002	MCD-B-93	EPA 3010A	756678	EPA 6010D	756717
92650182003	MCD-B-98	EPA 3010A	756678	EPA 6010D	756717
92650182004	MCD-B-97	EPA 3010A	756678	EPA 6010D	756717
92650182005	MCD-B-63	EPA 3010A	756678	EPA 6010D	756717
92650182006	MCD-B-102D	EPA 3010A	756678	EPA 6010D	756717
92650182007	MCD-B-83	EPA 3010A	756678	EPA 6010D	756717
92650182008	MCD-B-120D	EPA 3010A	756678	EPA 6010D	756717
92650182009	MCD-B-101D	EPA 3010A	756678	EPA 6010D	756717
92650182010	MCD-B-104D	EPA 3010A	756678	EPA 6010D	756717
92650183012	MCD-AP234-FB-3	EPA 3010A	755832	EPA 6010D	755852
92650182011	MCD-B-77	EPA 3010A	756678	EPA 6010D	756717
92650182012	MCD-B-107D	EPA 3010A	756678	EPA 6010D	756717
92650182013	MCD-B-109D	EPA 3010A	756678	EPA 6010D	756717
92650182014	MCD-B-115D	EPA 3010A	756678	EPA 6010D	756717
92650182015	MCD-B-122D	EPA 3010A	756678	EPA 6010D	756717
92650182016	MCD-B-56	EPA 3010A	756678	EPA 6010D	756717
92650182017	MCD-B-66	EPA 3010A	756678	EPA 6010D	756717
92650182018	MCD-B-82	EPA 3010A	756678	EPA 6010D	756717
92650182019	MCD-B-88	EPA 3010A	756678	EPA 6010D	756717
92650182020	MCD-B-106D	EPA 3010A	756678	EPA 6010D	756717
92650182021	MCD-B-108D	EPA 3010A	756896	EPA 6010D	756964
92650182022	MCD-B-111D	EPA 3010A	756896	EPA 6010D	756964
92650182023	MCD-AP234-EB-6	EPA 3010A	756896	EPA 6010D	756964
92650182024	MCD-AP234-FB-6	EPA 3010A	756896	EPA 6010D	756964

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McD AP-2, 3/4 Assessment

Pace Project No.: 92650182

Table with 6 columns: Lab ID, Sample ID, QC Batch Method, QC Batch, Analytical Method, Analytical Batch. It lists various sample IDs and their corresponding QC and analytical data.

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: Plant McD AP-2, 3/4 Assessment  
 Pace Project No.: 92650182

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92650182020	MCD-B-106D	EPA 7470A	757695	EPA 7470A	757886
92650182021	MCD-B-108D	EPA 7470A	757695	EPA 7470A	757886
92650182022	MCD-B-111D	EPA 7470A	757695	EPA 7470A	757886
92650182023	MCD-AP234-EB-6	EPA 7470A	757695	EPA 7470A	757886
92650182024	MCD-AP234-FB-6	EPA 7470A	757695	EPA 7470A	757886
92650182001	MCD-B-92	SM 2540C-2015	753740		
92650182002	MCD-B-93	SM 2540C-2015	753740		
92650182003	MCD-B-98	SM 2540C-2015	753781		
92650182004	MCD-B-97	SM 2540C-2015	753781		
92650182005	MCD-B-63	SM 2540C-2015	754118		
92650182006	MCD-B-102D	SM 2540C-2015	754118		
92650182007	MCD-B-83	SM 2540C-2015	754311		
92650182008	MCD-B-120D	SM 2540C-2015	754311		
92650182009	MCD-B-101D	SM 2540C-2015	754311		
92650182010	MCD-B-104D	SM 2540C-2015	754311		
92650183012	MCD-AP234-FB-3	SM 2540C-2015	754311		
92650182011	MCD-B-77	SM 2540C-2015	754576		
92650182012	MCD-B-107D	SM 2540C-2015	754576		
92650182013	MCD-B-109D	SM 2540C-2015	754576		
92650182014	MCD-B-115D	SM 2540C-2015	754576		
92650182015	MCD-B-122D	SM 2540C-2015	754576		
92650182016	MCD-B-56	SM 2540C-2015	755432		
92650182017	MCD-B-66	SM 2540C-2015	755432		
92650182018	MCD-B-82	SM 2540C-2015	755432		
92650182019	MCD-B-88	SM 2540C-2015	755432		
92650182020	MCD-B-106D	SM 2540C-2015	755432		
92650182021	MCD-B-108D	SM 2540C-2015	755432		
92650182022	MCD-B-111D	SM 2540C-2015	755432		
92650182023	MCD-AP234-EB-6	SM 2540C-2015	755432		
92650182024	MCD-AP234-FB-6	SM 2540C-2015	755437		
92650182001	MCD-B-92	SM 2320B-2011	753922		
92650182002	MCD-B-93	SM 2320B-2011	753922		
92650182003	MCD-B-98	SM 2320B-2011	753922		
92650182004	MCD-B-97	SM 2320B-2011	753922		
92650182005	MCD-B-63	SM 2320B-2011	754359		
92650182006	MCD-B-102D	SM 2320B-2011	754359		
92650182007	MCD-B-83	SM 2320B-2011	754413		
92650182008	MCD-B-120D	SM 2320B-2011	754413		
92650182009	MCD-B-101D	SM 2320B-2011	754413		
92650182010	MCD-B-104D	SM 2320B-2011	754413		
92650183012	MCD-AP234-FB-3	SM 2320B-2011	754413		
92650182011	MCD-B-77	SM 2320B-2011	754946		
92650182012	MCD-B-107D	SM 2320B-2011	754946		

**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: Plant McD AP-2, 3/4 Assessment  
 Pace Project No.: 92650182

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92650182013	MCD-B-109D	SM 2320B-2011	755781		
92650182014	MCD-B-115D	SM 2320B-2011	754946		
92650182015	MCD-B-122D	SM 2320B-2011	754946		
92650182016	MCD-B-56	SM 2320B-2011	755797		
92650182017	MCD-B-66	SM 2320B-2011	755797		
92650182018	MCD-B-82	SM 2320B-2011	755797		
92650182019	MCD-B-88	SM 2320B-2011	755797		
92650182020	MCD-B-106D	SM 2320B-2011	755797		
92650182021	MCD-B-108D	SM 2320B-2011	755797		
92650182022	MCD-B-111D	SM 2320B-2011	755797		
92650182023	MCD-AP234-EB-6	SM 2320B-2011	755797		
92650182024	MCD-AP234-FB-6	SM 2320B-2011	755965		
92650182001	MCD-B-92	EPA 300.0 Rev 2.1 1993	753991		
92650182002	MCD-B-93	EPA 300.0 Rev 2.1 1993	753991		
92650182003	MCD-B-98	EPA 300.0 Rev 2.1 1993	753991		
92650182004	MCD-B-97	EPA 300.0 Rev 2.1 1993	753991		
92650182005	MCD-B-63	EPA 300.0 Rev 2.1 1993	754259		
92650182006	MCD-B-102D	EPA 300.0 Rev 2.1 1993	754259		
92650182007	MCD-B-83	EPA 300.0 Rev 2.1 1993	754259		
92650182008	MCD-B-120D	EPA 300.0 Rev 2.1 1993	754259		
92650182009	MCD-B-101D	EPA 300.0 Rev 2.1 1993	754259		
92650182010	MCD-B-104D	EPA 300.0 Rev 2.1 1993	754259		
92650183012	MCD-AP234-FB-3	EPA 300.0 Rev 2.1 1993	754261		
92650182011	MCD-B-77	EPA 300.0 Rev 2.1 1993	754806		
92650182012	MCD-B-107D	EPA 300.0 Rev 2.1 1993	754806		
92650182013	MCD-B-109D	EPA 300.0 Rev 2.1 1993	754806		
92650182014	MCD-B-115D	EPA 300.0 Rev 2.1 1993	754806		
92650182015	MCD-B-122D	EPA 300.0 Rev 2.1 1993	754806		
92650182016	MCD-B-56	EPA 300.0 Rev 2.1 1993	755105		
92650182017	MCD-B-66	EPA 300.0 Rev 2.1 1993	755105		
92650182018	MCD-B-82	EPA 300.0 Rev 2.1 1993	755105		
92650182019	MCD-B-88	EPA 300.0 Rev 2.1 1993	755105		
92650182020	MCD-B-106D	EPA 300.0 Rev 2.1 1993	755105		
92650182021	MCD-B-108D	EPA 300.0 Rev 2.1 1993	755105		
92650182022	MCD-B-111D	EPA 300.0 Rev 2.1 1993	755105		
92650182023	MCD-AP234-EB-6	EPA 300.0 Rev 2.1 1993	755105		
92650182024	MCD-AP234-FB-6	EPA 300.0 Rev 2.1 1993	755348		

**REPORT OF LABORATORY ANALYSIS**

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DC#\_Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Sample Condition Upon Receipt

Client Name: GA Power

Project #: **WO#: 92650182**

Courier:  Commercial  Fed Ex  UPS  USPS  Client  Pace  Other: \_\_\_\_\_



Custody Seal Present?  Yes  No Seals intact?  Yes  No

Date/Initials Person Examining Contents: 2/2/23  
ert

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: 3.1 Correction Factor: Add/Subtract (°C) 40.0

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

Cooler Temp Corrected (°C): 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: \_\_\_\_\_



DC#\_ Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

WO#: 92650182

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

Project #

PM: BV

Due Date: 02/16/23

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

CLIENT: GA-GA Power

\*\*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-)	WGPU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AGDU-100 mL Amber Unpreserved (N/A) (Cl-)	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		2	1																									
5		<del>2</del>	<del>1</del>																									
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).



DC#\_Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Sample Condition Upon Receipt

Client Name:

GA Power

Project #:

WO#: 92650182

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace  Other:

PM: BV Due Date: 02/16/23 CLIENT: GA-GA Power

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 2/3/23

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:

3.8

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):

3.8

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.
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 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:



DC#\_Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

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

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

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

\*\*\*Check all unpreserved Nitrates for chlorine

Project #

WO#: 92650182

PM: BV

Due Date: 02/16/23

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)	DG9A-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1	/	2	1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	/	3	1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
3	/	2	1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
4	/	3	1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
5	/	2	1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
6	/	2	1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
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.



DC#\_Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta

Sample Condition Upon Receipt

Client Name: GA Power

Project #: WO#: 92650182

Courier:  Commercial  Fed Ex  UPS  USPS  Client  Pace  Other:

PM: BV Due Date: 02/16/23 CLIENT: GA-GA Power

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 2/7/23

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: 21 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): 2.2

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 type="checkbox"/> Yes <input checked="" 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		B-107D one BPIN arrived empty.
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: \_\_\_\_\_



DC#\_Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

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

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

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

\*\*\*Check all unpreserved Nitrates for chlorine

Project #

WO#: 92650182

PM: BV

Due Date: 02/16/23

CLIENT: GA-GA Power

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)	BP4B-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-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(C-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (C-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
1	3	1																											
2	2	1																											
3	2	1																											
4	2	1																											
5	2	1																											
6	2	1																											
7	3	1																											
8	2	1																											
9	2	1																											
10	3	1																											
11	3	1																											
12	2	1																											

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.



DC#\_Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

WO#: 92650182

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

Project #

PM: BV

Due Date: 02/16/23

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/BD15 (water) DOC, LLHg

CLIENT: GA-GA Power

\*\*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)	DG94-40 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)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG9U-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																									
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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.



DC#\_Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Sample Condition Upon Receipt

Client Name:

GA Power

Project #:

WO#: 92650182

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace  Other:

PM: BV Due Date: 02/16/23 CLIENT: GA-GA Power

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 2/8/23 C#4

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: 2.4 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): 2.4

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 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: 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 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

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

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

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

\*\*\*Check all unpreserved Nitrates for chlorine

Project # **WO# : 92650182**

PM: BV

Due Date: 02/16/23

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)	DG94-40 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)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
1		2	1																										
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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:	Section B Required Project Information:	Section C Invoicing Information:	Page: <b>1</b> of <b>1</b>
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Company: Georgia Power - Coal Combustion Residuals		Report To: Lauren Collier	
Address: 2480 Mauner Road		Copy To: Collier	
Atlanta, GA 30339		Purchase Order #:	
Email: <a href="mailto:labcollector@scouthenrco.com">labcollector@scouthenrco.com</a>		Project Name: Plant MGD AP-2, 3/4 Assessment	
Phone: (478) 520-8176		Plantmaster Well Network	
Requested Due Date: 10 Day TAT		Project #: GL18649632	
		Plant Profile #:	
		Requested Analysis Filtered (Y/N)	

ITEM #	SAMPLE ID (4-2, 0-8 f. ± Samples for must be unique)	MATRIX Description Water Waste Water Sludge Other Tank	CODE DW WWT P SL MS AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	PRESERVATIVES									Residual Chlorine (Y/N)											
									Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test												
														Y/N	N	N	N	N	N	N	N	N	N	N					
1	MCD-B-92-WG-20230151			WG	G	1/31/23	12:20									X	X	X	X	X	X	X	X	X	X	X	X		
2	MCD-B-93-WG-20230151			WG	G	1/31/23	14:25									X	X	X	X	X	X	X	X	X	X	X	X	X	
3	MCD-B-94-WG-20230151			WG	G	1/31/23	16:50									X	X	X	X	X	X	X	X	X	X	X	X	X	
4	MCD-B-97-WG-20230201			WG	G	2/1/23	11:20									X	X	X	X	X	X	X	X	X	X	X	X	X	
5																													
6																													
7																													
8																													
9																													
10																													
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13																													
14																													

RELEASURSED BY: M. BATH	DATE: 2-2-23	TIME: 1:55	ACCEPTED BY: M. BATH	DATE: 2-2-23	
ADDITIONAL COMMENTS: MCD-COR-ASSINT-202351		SAMPLE CONDITIONS:			

TEMP in C: \_\_\_\_\_

Received on Ice (Y/N): \_\_\_\_\_

Custody Sealed Cooler (Y/N): \_\_\_\_\_

Samples Intact (Y/N): \_\_\_\_\_

DATE Shipped: \_\_\_\_\_

pH = 4.46, Fe2 = 0.0 mg/L (Fe2 analyzed 1/31/23 at 12:20)  
 pH = 4.58, Fe2 = 0.0 mg/L (Fe2 analyzed 1/31/23 at 14:30)  
 pH = 5.78, Fe2 = 0.0 mg/L (Fe2 analyzed 1/31/23 at 16:50)  
 pH = 5.47, Fe2 = 0.0 mg/L (Fe2 analyzed 2/1/23 at 11:20)

*Handwritten notes:* 92650182, 002, 003, 004



2020/1/15

# CHAIN-OF-CUSTODY / Analytical Request Document

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

<b>Section A</b>	<b>Required Client Information:</b>	<b>Section B</b>	<b>Required Project Information:</b>	<b>Section C</b>	<b>Involved Information:</b>	Page: 1 of 1
Company: Georgia Power - Coal Distribution Network	Address: 2400 Hunter Road Atlanta, GA 30328	Request To: Lauren Doherty	Copy To: Golder	Assigned To: scathund@scathund.com	Company Name:	
Email: jhsobier@scathund.com	Phone: (478) 620-8178	Purchase Order #:	Product Name: Panel M20 JF 2, 3/4 Assessment	Requested Date: 10/20/2018	Project #:	
		Project #:	Project #:			

ITEM #	SAMPLE ID	MATRIX	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES							ANALYSES TEST	Y/N	Residual Chlorine (Y/N)																		
							Unpreserved - Ice	H2SO4	HN03 + Ice	HCl	NH0H + Zn Acetate	Na2S2O3	Methanol				Other	App IIR/V + Mg, Ne, K, Fe	Cl, F, SO4	Radium 226/228	TDS	Alkalinity	Fe Total, Fe 3+ (Ferric calculation)											
1	MCD-B-17D-WG-20220208	WG	2/6/23	13:56		8	3																											
2	MCD-B-18D-WG-20220208	WG	2/6/23	14:15		8	3																											
3	MCD-B-10SD-WG-20220208	WG	2/6/23	11:50		8	3																											
4	MCD-B-11SD-WG-20220208	WG	2/6/23	16:25		8	3																											
5	MCD-B-12SD-WG-20220208	WG	2/6/23	10:50		8	3																											
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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 Requested Client Information:		Section B Requested Project Information:		Section C Invoice Information:	
Company: Georgia Power - Coal Combustion Residue	Address: 2490 Mainer Road Atlanta, GA 30339	Report to: Lauren Collier	Copy to: Collier	Attention: scanhoco@scsullivan.com	Company Name:
Email: scanhoco@sullivan.com	Phone: (470) 620-8176	Project Name: Plant MCD AP-2, 3/4 Assessment	Purchase Order #:	Plant MCD AP-2, 3/4 Assessment	Plant MCD AP-2, 3/4 Assessment
		Project #: 61.158240522	Plant MCD AP-2, 3/4 Assessment	Plant MCD AP-2, 3/4 Assessment	Plant MCD AP-2, 3/4 Assessment

ITEM #	MATRIX	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test	Requested Analyte Filtered (Y/N)	Residual Chlorine (Y/N)
1	MCD-B-59-WG-20230207	2/7/23	16:43		6	3	3	3						X	N	X
2	MCD-B-56-WG-20230207	2/7/23	14:25		6	3	3	3						X	N	X
3	MCD-B-82-WG-20230207	2/7/23	11:38		6	3	3	3						X	N	X
4	MCD-B-48-WG-20230207	2/7/23	14:35		6	3	3	3						X	N	X
5	MCD-B-108D-WG-20230207	2/7/23	15:45		6	3	3	3						X	N	X
6	MCD-B-108D-WG-20230207	2/7/23	13:03		8	3	5	5						X	N	X
7	MCD-B-111D-WG-20230207	2/7/23	11:40		6	3	3	3						X	N	X
8	MCD-AP234-EB-6-WG-20230207	2/7/23	9:00		6	3	3	3						X	N	X
9	MCD-AP234-EB-6-WG-20230207	2/7/23	12:35		6	3	3	3						X	N	X
10	MCD-AP234-EB-6-WG-20230207	2/7/23	12:35		6	3	3	3						X	N	X
11																
12																
13																
14																

ADDITIONAL COMMENTS		REQUISITIONED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE
Task Code: MCD-0894981-202351		LSSP		2/8/23	13:18	Carroll Rule		2/8/23

TEMP In C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

PH = 4.55, Fe2 = 0.0 mg/L, Fe2 analyzed 2/7/23 at 16:46  
 PH = 5.22, Fe2 = 2.0 mg/L, Fe2 analyzed 2/7/23 at 14:30  
 PH = 5.28, Fe2 = 0.0 mg/L, Fe2 analyzed 2/7/23 at 11:43  
 PH = 5.58, Fe2 = 0.0 mg/L, Fe2 analyzed 2/7/23 at 14:40  
 PH = 5.86, Fe2 = 0.0 mg/L, Fe2 analyzed 2/7/23 at 15:50  
 PH = 5.92, Fe2 = 0.5 mg/L, Fe2 analyzed 2/7/23 at 13:08  
 Extra Radium  
 PH = 7.30, Fe2 = 1.5 mg/L, Fe2 analyzed 2/7/23 at 11:45

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July 28, 2023

Andrea McClure  
WSP/Golder  
5170 Peachtree Road  
Building 100, Suite 300  
Atlanta, GA 30341

RE: Project: Plant McD AP-2, 3/4 Supplement  
Pace Project No.: 92650184

Dear Andrea McClure:

Enclosed are the analytical results for sample(s) received by the laboratory between February 02, 2023 and February 10, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,

Bonnie Vang  
bonnie.vang@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: Stephen Benda, Southern Company  
Daniela Herrera, Golder  
Ben Hodges, Georgia Power-CCR  
J. Shelby Mobley, Southern Company  
Charles Norton, Southern Company  
Dawn Prell, WSP USA E&I Inc\_Atlanta  
Yong Cheng Soo, WSP/Golder



## REPORT OF LABORATORY ANALYSIS

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### CERTIFICATIONS

Project: Plant McD AP-2, 3/4 Suppliment

Pace Project No.: 92650184

---

**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

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**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

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**Pace Analytical Services Peachtree Corners**

110 Technology Pkwy, Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

Virginia Certification #: 460204

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### REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: Plant McD AP-2, 3/4 Suppliment  
Pace Project No.: 92650184

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92650184001	MCD-B-90	Water	01/31/23 12:43	02/02/23 11:36
92650184002	MCD-B-91	Water	01/31/23 14:33	02/02/23 11:36
92650184003	MCD-B-96	Water	01/31/23 16:05	02/02/23 11:36
92650184004	MCD-B-95	Water	02/01/23 11:25	02/02/23 11:36
92650184005	MCD-B-99	Water	02/01/23 14:05	02/02/23 11:36
92650184006	MCD-B-123D	Water	02/09/23 14:40	02/10/23 12:25

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Plant McD AP-2, 3/4 Suppliment

Pace Project No.: 92650184

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92650184001	MCD-B-90	EPA 6020B	DRB	1
92650184002	MCD-B-91	EPA 6020B	DRB	1
92650184003	MCD-B-96	EPA 6020B	DRB	1
92650184004	MCD-B-95	EPA 6020B	DRB	1
92650184005	MCD-B-99	EPA 6020B	DRB	1
92650184006	MCD-B-123D	EPA 6010D	MS	5
		EPA 6010D	MS	5
		EPA 6020B	CW1, DRB	13
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		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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## PROJECT NARRATIVE

Project: Plant McD AP-2, 3/4 Supplement  
Pace Project No.: 92650184

---

**Date:** July 28, 2023

Georgia Power EQulS Database Manager requested Pace Project Manager remove the sample matrix and date from the Sample IDs. This update ensures sample nomenclature is followed on final PDF and EDD for successful upload of laboratory data into the Georgia Power EQulS database.

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Plant McD AP-2, 3/4 Supplement  
Pace Project No.: 92650184

---

**Method:** EPA 6010D  
**Description:** 6010D ATL ICP  
**Client:** Georgia Power  
**Date:** July 28, 2023

### General Information:

1 sample was analyzed for EPA 6010D by Pace Analytical Services Peachtree Corners, GA. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Sample Preparation:

The samples were prepared in accordance with EPA 3010A with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 757456

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92651576001

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

- MS (Lab ID: 3934805)
  - Calcium
  - Sodium

### Additional Comments:

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Plant McD AP-2, 3/4 Supplement

Pace Project No.: 92650184

---

**Method:** EPA 6010D

**Description:** 6010 MET ICP, Dissolved

**Client:** Georgia Power

**Date:** July 28, 2023

### General Information:

1 sample was analyzed for EPA 6010D by Pace Analytical Services Peachtree Corners, GA. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Sample Preparation:

The samples were prepared in accordance with EPA 3010A with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 756605

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92648433003

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

- MS (Lab ID: 3930872)
  - Calcium, Dissolved
  - Magnesium, Dissolved
  - Sodium, Dissolved
- MSD (Lab ID: 3930873)
  - Calcium, Dissolved
  - Iron, Dissolved
  - Magnesium, Dissolved
  - Sodium, Dissolved

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Plant McD AP-2, 3/4 Supplement  
Pace Project No.: 92650184

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**Method:** EPA 6010D  
**Description:** 6010 MET ICP, Dissolved  
**Client:** Georgia Power  
**Date:** July 28, 2023

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Plant McD AP-2, 3/4 Supplement

Pace Project No.: 92650184

---

**Method:** EPA 6020B

**Description:** 6020 MET ICPMS

**Client:** Georgia Power

**Date:** July 28, 2023

**General Information:**

6 samples were analyzed for EPA 6020B by Pace Analytical Services Peachtree Corners, GA. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**

The samples were prepared in accordance with EPA 3005A with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Internal Standards:**

All internal standards were within QC limits with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Plant McD AP-2, 3/4 Supplement

Pace Project No.: 92650184

---

**Method:** EPA 6020B

**Description:** 6020 MET ICPMS, Dissolved

**Client:** Georgia Power

**Date:** July 28, 2023

**General Information:**

1 sample was analyzed for EPA 6020B by Pace Analytical Services Peachtree Corners, GA. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**

The samples were prepared in accordance with EPA 3005A with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Internal Standards:**

All internal standards were within QC limits with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Plant McD AP-2, 3/4 Supplement

Pace Project No.: 92650184

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**Method:** EPA 7470A

**Description:** 7470 Mercury

**Client:** Georgia Power

**Date:** July 28, 2023

**General Information:**

1 sample was analyzed for EPA 7470A by Pace Analytical Services Peachtree Corners, GA. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**

The samples were prepared in accordance with EPA 7470A with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Internal Standards:**

All internal standards were within QC limits with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Plant McD AP-2, 3/4 Supplement

Pace Project No.: 92650184

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**Method:** EPA 7470A

**Description:** 7470 Mercury, Dissolved

**Client:** Georgia Power

**Date:** July 28, 2023

**General Information:**

1 sample was analyzed for EPA 7470A by Pace Analytical Services Peachtree Corners, GA. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**

The samples were prepared in accordance with EPA 7470A with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Internal Standards:**

All internal standards were within QC limits with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

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## PROJECT NARRATIVE

Project: Plant McD AP-2, 3/4 Supplement  
Pace Project No.: 92650184

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**Method:** SM 2540C-2015  
**Description:** 2540C Total Dissolved Solids  
**Client:** Georgia Power  
**Date:** July 28, 2023

### General Information:

1 sample was analyzed for SM 2540C-2015 by Pace Analytical Services Peachtree Corners, GA. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

### Additional Comments:

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## PROJECT NARRATIVE

Project: Plant McD AP-2, 3/4 Suppliment  
Pace Project No.: 92650184

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**Method:** SM 2320B-2011  
**Description:** 2320B Alkalinity  
**Client:** Georgia Power  
**Date:** July 28, 2023

### General Information:

1 sample was analyzed for SM 2320B-2011 by Pace Analytical Services Asheville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### Additional Comments:

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## PROJECT NARRATIVE

Project: Plant McD AP-2, 3/4 Supplement

Pace Project No.: 92650184

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**Method:** EPA 300.0 Rev 2.1 1993

**Description:** 300.0 IC Anions 28 Days

**Client:** Georgia Power

**Date:** July 28, 2023

### General Information:

1 sample was analyzed for EPA 300.0 Rev 2.1 1993 by Pace Analytical Services Asheville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 755597

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92651382015,92651745002

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

- MS (Lab ID: 3925894)
  - Chloride
  - Fluoride
- MSD (Lab ID: 3925895)
  - Chloride
  - Fluoride

### Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Plant McD AP-2, 3/4 Supplement

Pace Project No.: 92650184

**Sample: MCD-B-90**      **Lab ID: 92650184001**      Collected: 01/31/23 12:43      Received: 02/02/23 11:36      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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**Monitoring Well Data**

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>Client</b>				1		02/14/23 18:00		
Collected Date	<b>01/31/23</b>				1		02/14/23 18:00		
Collected Time	<b>12:48</b>				1		02/14/23 18:00		
pH	<b>5.36</b>	Std. Units			1		02/14/23 18:00		

**6020 MET ICPMS**

Analytical Method: EPA 6020B      Preparation Method: EPA 3005A  
Pace Analytical Services - Peachtree Corners, GA

Boron	<b>3.1</b>	mg/L	0.040	0.0086	1	02/21/23 17:00	02/22/23 18:46	7440-42-8	
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### ANALYTICAL RESULTS

Project: Plant McD AP-2, 3/4 Supplement

Pace Project No.: 92650184

**Sample: MCD-B-91**      **Lab ID: 92650184002**      Collected: 01/31/23 14:33      Received: 02/02/23 11:36      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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**Monitoring Well Data**

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>Client</b>				1		02/14/23 18:01		
Collected Date	<b>01/31/23</b>				1		02/14/23 18:01		
Collected Time	<b>14:38</b>				1		02/14/23 18:01		
pH	<b>5.28</b>	Std. Units			1		02/14/23 18:01		

**6020 MET ICPMS**

Analytical Method: EPA 6020B      Preparation Method: EPA 3005A  
Pace Analytical Services - Peachtree Corners, GA

Boron	<b>3.0</b>	mg/L	0.040	0.0086	1	02/21/23 17:00	02/22/23 18:52	7440-42-8	
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**ANALYTICAL RESULTS**

Project: Plant McD AP-2, 3/4 Supplement

Pace Project No.: 92650184

**Sample: MCD-B-96**      **Lab ID: 92650184003**      Collected: 01/31/23 16:05      Received: 02/02/23 11:36      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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**Monitoring Well Data**

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>Client</b>				1		02/14/23 18:02		
Collected Date	<b>01/31/23</b>				1		02/14/23 18:02		
Collected Time	<b>16:10</b>				1		02/14/23 18:02		
pH	<b>5.04</b>	Std. Units			1		02/14/23 18:02		

**6020 MET ICPMS**

Analytical Method: EPA 6020B      Preparation Method: EPA 3005A  
Pace Analytical Services - Peachtree Corners, GA

Boron	<b>3.2</b>	mg/L	0.040	0.0086	1	02/21/23 17:00	02/22/23 18:58	7440-42-8	
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### ANALYTICAL RESULTS

Project: Plant McD AP-2, 3/4 Supplement

Pace Project No.: 92650184

**Sample: MCD-B-95**      **Lab ID: 92650184004**      Collected: 02/01/23 11:25      Received: 02/02/23 11:36      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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**Monitoring Well Data**

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>Client</b>				1		02/14/23 18:02		
Collected Date	<b>02/01/23</b>				1		02/14/23 18:02		
Collected Time	<b>11:30</b>				1		02/14/23 18:02		
pH	<b>5.26</b>	Std. Units			1		02/14/23 18:02		

**6020 MET ICPMS**

Analytical Method: EPA 6020B      Preparation Method: EPA 3005A  
Pace Analytical Services - Peachtree Corners, GA

Boron	<b>1.4</b>	mg/L	0.040	0.0086	1	02/21/23 17:00	02/22/23 19:04	7440-42-8	
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### ANALYTICAL RESULTS

Project: Plant McD AP-2, 3/4 Supplement

Pace Project No.: 92650184

Sample: MCD-B-99 Lab ID: 92650184005 Collected: 02/01/23 14:05 Received: 02/02/23 11:36 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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#### Monitoring Well Data

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>Client</b>				1		02/14/23 18:03		
Collected Date	<b>02/01/23</b>				1		02/14/23 18:03		
Collected Time	<b>14:10</b>				1		02/14/23 18:03		
pH	<b>5.61</b>	Std. Units			1		02/14/23 18:03		

#### 6020 MET ICPMS

Analytical Method: EPA 6020B Preparation Method: EPA 3005A  
Pace Analytical Services - Peachtree Corners, GA

Boron	<b>1.9</b>	mg/L	0.040	0.0086	1	02/21/23 17:00	02/22/23 19:10	7440-42-8	
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### ANALYTICAL RESULTS

Project: Plant McD AP-2, 3/4 Supplement

Pace Project No.: 92650184

Sample: MCD-B-123D Lab ID: 92650184006 Collected: 02/09/23 14:40 Received: 02/10/23 12:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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#### Monitoring Well Data

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	Client				1		02/14/23 18:04		
Collected Date	02/09/23				1		02/14/23 18:04		
Collected Time	14:45				1		02/14/23 18:04		
pH	6.28	Std. Units			1		02/14/23 18:04		

#### 6010D ATL ICP

Analytical Method: EPA 6010D Preparation Method: EPA 3010A  
Pace Analytical Services - Peachtree Corners, GA

Iron	25.0	mg/L	0.040	0.025	1	02/22/23 13:52	02/22/23 20:44	7439-89-6	
Potassium	7.1	mg/L	0.20	0.15	1	02/22/23 13:52	02/22/23 20:44	7440-09-7	
Sodium	24.2	mg/L	1.0	0.58	1	02/22/23 13:52	02/22/23 20:44	7440-23-5	
Calcium	82.4	mg/L	1.0	0.12	1	02/22/23 13:52	02/22/23 20:44	7440-70-2	
Magnesium	14.3	mg/L	0.050	0.012	1	02/22/23 13:52	02/22/23 20:44	7439-95-4	

#### 6010 MET ICP, Dissolved

Analytical Method: EPA 6010D Preparation Method: EPA 3010A  
Pace Analytical Services - Peachtree Corners, GA

Iron, Dissolved	27.3	mg/L	0.040	0.025	1	02/17/23 11:13	02/17/23 17:21	7439-89-6	
Calcium, Dissolved	88.0	mg/L	1.0	0.12	1	02/17/23 11:13	02/17/23 17:21	7440-70-2	
Magnesium, Dissolved	16.1	mg/L	0.050	0.012	1	02/17/23 11:13	02/17/23 17:21	7439-95-4	
Sodium, Dissolved	26.0	mg/L	1.0	0.58	1	02/17/23 11:13	02/17/23 17:21	7440-23-5	
Potassium, Dissolved	7.7	mg/L	0.20	0.15	1	02/17/23 11:13	02/17/23 17:21	7440-09-7	

#### 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	02/21/23 17:00	02/22/23 21:15	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/21/23 17:00	02/22/23 21:15	7440-38-2	
Barium	0.023	mg/L	0.0050	0.00067	1	02/21/23 17:00	02/22/23 21:15	7440-39-3	
Beryllium	0.0016	mg/L	0.00050	0.000054	1	02/21/23 17:00	02/22/23 21:15	7440-41-7	
Boron	0.59	mg/L	0.20	0.043	5	02/21/23 17:00	02/23/23 14:51	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/21/23 17:00	02/22/23 21:15	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/21/23 17:00	02/22/23 21:15	7440-47-3	
Cobalt	0.096	mg/L	0.0050	0.00039	1	02/21/23 17:00	02/22/23 21:15	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/21/23 17:00	02/22/23 21:15	7439-92-1	
Lithium	0.048	mg/L	0.030	0.00073	1	02/21/23 17:00	02/22/23 21:15	7439-93-2	
Molybdenum	0.00077J	mg/L	0.010	0.00074	1	02/21/23 17:00	02/22/23 21:15	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/21/23 17:00	02/22/23 21:15	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/21/23 17:00	02/22/23 21:15	7440-28-0	

#### 6020 MET ICPMS, Dissolved

Analytical Method: EPA 6020B Preparation Method: EPA 3005A  
Pace Analytical Services - Peachtree Corners, GA

Antimony, Dissolved	ND	mg/L	0.0030	0.00078	1	02/24/23 10:59	02/24/23 20:57	7440-36-0	
Arsenic, Dissolved	ND	mg/L	0.0050	0.0022	1	02/24/23 10:59	02/24/23 20:57	7440-38-2	
Barium, Dissolved	0.023	mg/L	0.0050	0.00067	1	02/24/23 10:59	02/24/23 20:57	7440-39-3	
Beryllium, Dissolved	0.0017	mg/L	0.00050	0.000054	1	02/24/23 10:59	02/25/23 14:29	7440-41-7	
Boron, Dissolved	0.61	mg/L	0.040	0.0086	1	02/24/23 10:59	02/25/23 14:29	7440-42-8	

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### ANALYTICAL RESULTS

Project: Plant McD AP-2, 3/4 Supplement

Pace Project No.: 92650184

Sample: MCD-B-123D		Lab ID: 92650184006		Collected: 02/09/23 14:40		Received: 02/10/23 12:25		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Cadmium, Dissolved	ND	mg/L	0.00050	0.00011	1	02/24/23 10:59	02/24/23 20:57	7440-43-9	
Chromium, Dissolved	ND	mg/L	0.0050	0.0011	1	02/24/23 10:59	02/24/23 20:57	7440-47-3	
Cobalt, Dissolved	<b>0.096</b>	mg/L	0.0050	0.00039	1	02/24/23 10:59	02/24/23 20:57	7440-48-4	
Lead, Dissolved	ND	mg/L	0.0010	0.00089	1	02/24/23 10:59	02/24/23 20:57	7439-92-1	
Lithium, Dissolved	<b>0.047</b>	mg/L	0.030	0.00073	1	02/24/23 10:59	02/24/23 20:57	7439-93-2	
Molybdenum, Dissolved	<b>0.0010J</b>	mg/L	0.010	0.00074	1	02/24/23 10:59	02/24/23 20:57	7439-98-7	
Selenium, Dissolved	ND	mg/L	0.0050	0.0014	1	02/24/23 10:59	02/24/23 20:57	7782-49-2	
Thallium, Dissolved	ND	mg/L	0.0010	0.00018	1	02/24/23 10:59	02/24/23 20:57	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/24/23 07:00	02/24/23 11:47	7439-97-6	
<b>7470 Mercury, Dissolved</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury, Dissolved	ND	mg/L	0.00020	0.00013	1	02/23/23 15:10	02/24/23 08:40	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>619</b>	mg/L	25.0	25.0	1		02/15/23 11:58		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	<b>53.9</b>	mg/L	5.0	5.0	1		02/17/23 16:12		
Alkalinity, Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	5.0	1		02/17/23 16:12		
Alkalinity, Total as CaCO <sub>3</sub>	<b>53.9</b>	mg/L	5.0	5.0	1		02/17/23 16:12		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>10.1</b>	mg/L	1.0	0.60	1		02/14/23 09:10	16887-00-6	
Fluoride	<b>0.89</b>	mg/L	0.10	0.050	1		02/14/23 09:10	16984-48-8	
Sulfate	<b>348</b>	mg/L	7.0	3.5	7		02/14/23 16:25	14808-79-8	

### REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA**

Project: Plant McD AP-2, 3/4 Supplement

Pace Project No.: 92650184

QC Batch: 757456	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010D ATL
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92650184006

METHOD BLANK: 3934803 Matrix: Water

Associated Lab Samples: 92650184006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	02/22/23 19:18	
Iron	mg/L	ND	0.040	0.025	02/22/23 19:18	
Magnesium	mg/L	ND	0.050	0.012	02/22/23 19:18	
Potassium	mg/L	ND	0.20	0.15	02/22/23 19:18	
Sodium	mg/L	ND	1.0	0.58	02/22/23 19:18	

LABORATORY CONTROL SAMPLE: 3934804

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.97J	97	80-120	
Iron	mg/L	1	0.98	98	80-120	
Magnesium	mg/L	1	0.98	98	80-120	
Potassium	mg/L	1	1.0	100	80-120	
Sodium	mg/L	1	0.94J	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3934805 3934806

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92651576001 Result	Spike Conc.	Spike Conc.	Result						
Calcium	mg/L	11.9	1	1	13.1	13.1	126	119	75-125	0	20 M1
Iron	mg/L	ND	1	1	0.99	0.98	98	98	75-125	1	20
Magnesium	mg/L	10.7	1	1	12.0	11.9	125	118	75-125	1	20
Potassium	mg/L	9.1	1	1	10.3	10.3	122	121	75-125	0	20
Sodium	mg/L	14.9	1	1	16.2	16.1	135	123	75-125	1	20 M1

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**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL DATA**

Project: Plant McD AP-2, 3/4 Supplement

Pace Project No.: 92650184

QC Batch:	756605	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010 MET Filtered Diss.
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92650184006

METHOD BLANK: 3930870 Matrix: Water

Associated Lab Samples: 92650184006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium, Dissolved	mg/L	ND	1.0	0.12	02/17/23 15:20	
Iron, Dissolved	mg/L	ND	0.040	0.025	02/17/23 15:20	
Magnesium, Dissolved	mg/L	ND	0.050	0.012	02/17/23 15:20	
Potassium, Dissolved	mg/L	ND	0.20	0.15	02/17/23 15:20	
Sodium, Dissolved	mg/L	ND	1.0	0.58	02/17/23 15:20	

LABORATORY CONTROL SAMPLE: 3930871

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium, Dissolved	mg/L	1	1.0	103	80-120	
Iron, Dissolved	mg/L	1	1.0	103	80-120	
Magnesium, Dissolved	mg/L	1	1.1	106	80-120	
Potassium, Dissolved	mg/L	1	0.87	87	80-120	
Sodium, Dissolved	mg/L	1	1.2	118	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3930872 3930873

Parameter	Units	92648433003 Result	MS Spike Conc.	MSD Spike Conc.	3930872		3930873		% Rec Limits	RPD	Max RPD	Qual
					MS Result	MSD Result	MS % Rec	MSD % Rec				
Calcium, Dissolved	mg/L		1	1	323	322	-778	-924	75-125	0	20	M1
Iron, Dissolved	mg/L		1	1	3.6	3.8	112	132	75-125	5	20	M1
Magnesium, Dissolved	mg/L		1	1	28.3	28.1	48	33	75-125	1	20	M1
Potassium, Dissolved	mg/L		1	1	7.0	7.0	79	89	75-125	1	20	
Sodium, Dissolved	mg/L		1	1	11.2	11.2	65	65	75-125	0	20	M1

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**QUALITY CONTROL DATA**

Project: Plant McD AP-2, 3/4 Supplement

Pace Project No.: 92650184

QC Batch:	757280	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3005A	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92650184001, 92650184002, 92650184003, 92650184004, 92650184005, 92650184006

METHOD BLANK: 3934100 Matrix: Water  
 Associated Lab Samples: 92650184001, 92650184002, 92650184003, 92650184004, 92650184005, 92650184006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	02/22/23 18:34	
Arsenic	mg/L	ND	0.0050	0.0022	02/22/23 18:34	
Barium	mg/L	ND	0.0050	0.00067	02/22/23 18:34	
Beryllium	mg/L	ND	0.00050	0.000054	02/22/23 18:34	
Boron	mg/L	ND	0.040	0.0086	02/22/23 18:34	
Cadmium	mg/L	ND	0.00050	0.00011	02/22/23 18:34	
Chromium	mg/L	ND	0.0050	0.0011	02/22/23 18:34	
Cobalt	mg/L	ND	0.0050	0.00039	02/22/23 18:34	
Lead	mg/L	ND	0.0010	0.00089	02/22/23 18:34	
Lithium	mg/L	ND	0.030	0.00073	02/22/23 18:34	
Molybdenum	mg/L	ND	0.010	0.00074	02/22/23 18:34	
Selenium	mg/L	ND	0.0050	0.0014	02/22/23 18:34	
Thallium	mg/L	ND	0.0010	0.00018	02/22/23 18:34	

LABORATORY CONTROL SAMPLE: 3934101

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	108	80-120	
Arsenic	mg/L	0.1	0.10	100	80-120	
Barium	mg/L	0.1	0.10	102	80-120	
Beryllium	mg/L	0.1	0.10	103	80-120	
Boron	mg/L	1	0.99	99	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	0.10	100	80-120	
Lead	mg/L	0.1	0.10	100	80-120	
Lithium	mg/L	0.1	0.10	104	80-120	
Molybdenum	mg/L	0.1	0.10	100	80-120	
Selenium	mg/L	0.1	0.10	102	80-120	
Thallium	mg/L	0.1	0.10	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3934102 3934103

Parameter	Units	92650184005 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	109	75-125	0	20	
Arsenic	mg/L	ND	0.1	0.1	0.1	0.10	102	104	75-125	2	20	

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**QUALITY CONTROL DATA**

Project: Plant McD AP-2, 3/4 Supplement

Pace Project No.: 92650184

Parameter	Units	3934102		3934103		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		92650184005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Barium	mg/L	0.024	0.1	0.1	0.13	0.13	104	104	75-125	0	20		
Beryllium	mg/L	0.00098	0.1	0.1	0.093	0.094	92	93	75-125	2	20		
Boron	mg/L	1.9	1	1	2.8	2.8	91	93	75-125	1	20		
Cadmium	mg/L	0.00093	0.1	0.1	0.10	0.11	100	104	75-125	4	20		
Chromium	mg/L	ND	0.1	0.1	0.098	0.098	98	98	75-125	0	20		
Cobalt	mg/L	0.0043J	0.1	0.1	0.10	0.10	97	98	75-125	1	20		
Lead	mg/L	ND	0.1	0.1	0.096	0.099	96	99	75-125	3	20		
Lithium	mg/L	0.0041J	0.1	0.1	0.10	0.10	98	99	75-125	1	20		
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	101	102	75-125	1	20		
Selenium	mg/L	ND	0.1	0.1	0.10	0.11	103	107	75-125	4	20		
Thallium	mg/L	ND	0.1	0.1	0.097	0.10	97	100	75-125	3	20		

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**QUALITY CONTROL DATA**

Project: Plant McD AP-2, 3/4 Supplement

Pace Project No.: 92650184

QC Batch:	757952	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3005A	Analysis Description:	6020 MET Dissolved
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92650184006

METHOD BLANK: 3937327 Matrix: Water

Associated Lab Samples: 92650184006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony, Dissolved	mg/L	ND	0.0030	0.00078	02/24/23 20:33	
Arsenic, Dissolved	mg/L	ND	0.0050	0.0022	02/24/23 20:33	
Barium, Dissolved	mg/L	ND	0.0050	0.00067	02/24/23 20:33	
Beryllium, Dissolved	mg/L	0.00014J	0.00050	0.000054	02/25/23 14:06	
Boron, Dissolved	mg/L	ND	0.040	0.0086	02/25/23 14:06	
Cadmium, Dissolved	mg/L	ND	0.00050	0.00011	02/24/23 20:33	
Chromium, Dissolved	mg/L	ND	0.0050	0.0011	02/24/23 20:33	
Cobalt, Dissolved	mg/L	ND	0.0050	0.00039	02/24/23 20:33	
Lead, Dissolved	mg/L	ND	0.0010	0.00089	02/24/23 20:33	
Lithium, Dissolved	mg/L	ND	0.030	0.00073	02/24/23 20:33	
Molybdenum, Dissolved	mg/L	ND	0.010	0.00074	02/24/23 20:33	
Selenium, Dissolved	mg/L	ND	0.0050	0.0014	02/24/23 20:33	
Thallium, Dissolved	mg/L	0.00020J	0.0010	0.00018	02/24/23 20:33	

METHOD BLANK: 3937388 Matrix: Water

Associated Lab Samples: 92650184006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony, Dissolved	mg/L	ND	0.0030	0.00078	02/24/23 20:39	
Arsenic, Dissolved	mg/L	ND	0.0050	0.0022	02/24/23 20:39	
Barium, Dissolved	mg/L	ND	0.0050	0.00067	02/24/23 20:39	
Beryllium, Dissolved	mg/L	ND	0.00050	0.000054	02/25/23 14:12	
Boron, Dissolved	mg/L	ND	0.040	0.0086	02/25/23 14:12	
Cadmium, Dissolved	mg/L	ND	0.00050	0.00011	02/24/23 20:39	
Chromium, Dissolved	mg/L	ND	0.0050	0.0011	02/24/23 20:39	
Cobalt, Dissolved	mg/L	ND	0.0050	0.00039	02/24/23 20:39	
Lead, Dissolved	mg/L	ND	0.0010	0.00089	02/24/23 20:39	
Lithium, Dissolved	mg/L	ND	0.030	0.00073	02/24/23 20:39	
Molybdenum, Dissolved	mg/L	ND	0.010	0.00074	02/24/23 20:39	
Selenium, Dissolved	mg/L	ND	0.0050	0.0014	02/24/23 20:39	
Thallium, Dissolved	mg/L	ND	0.0010	0.00018	02/24/23 20:39	

LABORATORY CONTROL SAMPLE: 3937328

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony, Dissolved	mg/L	0.1	0.11	110	80-120	
Arsenic, Dissolved	mg/L	0.1	0.10	102	80-120	

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### QUALITY CONTROL DATA

Project: Plant McD AP-2, 3/4 Supplement

Pace Project No.: 92650184

LABORATORY CONTROL SAMPLE: 3937328

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium, Dissolved	mg/L	0.1	0.10	101	80-120	
Beryllium, Dissolved	mg/L	0.1	0.11	106	80-120	
Boron, Dissolved	mg/L	1	1.1	106	80-120	
Cadmium, Dissolved	mg/L	0.1	0.10	103	80-120	
Chromium, Dissolved	mg/L	0.1	0.095	95	80-120	
Cobalt, Dissolved	mg/L	0.1	0.095	95	80-120	
Lead, Dissolved	mg/L	0.1	0.10	104	80-120	
Lithium, Dissolved	mg/L	0.1	0.092	92	80-120	
Molybdenum, Dissolved	mg/L	0.1	0.10	105	80-120	
Selenium, Dissolved	mg/L	0.1	0.10	103	80-120	
Thallium, Dissolved	mg/L	0.1	0.10	104	80-120	

LABORATORY CONTROL SAMPLE: 3937389

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony, Dissolved	mg/L	0.1	0.11	114	80-120	
Arsenic, Dissolved	mg/L	0.1	0.10	105	80-120	
Barium, Dissolved	mg/L	0.1	0.10	104	80-120	
Beryllium, Dissolved	mg/L	0.1	0.11	111	80-120	
Boron, Dissolved	mg/L	1	1.1	114	80-120	
Cadmium, Dissolved	mg/L	0.1	0.11	106	80-120	
Chromium, Dissolved	mg/L	0.1	0.096	96	80-120	
Cobalt, Dissolved	mg/L	0.1	0.097	97	80-120	
Lead, Dissolved	mg/L	0.1	0.10	105	80-120	
Lithium, Dissolved	mg/L	0.1	0.098	98	80-120	
Molybdenum, Dissolved	mg/L	0.1	0.11	106	80-120	
Selenium, Dissolved	mg/L	0.1	0.10	105	80-120	
Thallium, Dissolved	mg/L	0.1	0.10	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3937386 3937387

Parameter	Units	MS 92652963002		MSD		MS 3937387		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	% Rec	% Rec					
Antimony, Dissolved	mg/L	ND	0.1	0.1	0.11	0.11	110	113	75-125	2	20		
Arsenic, Dissolved	mg/L	ND	0.1	0.1	0.10	0.10	100	102	75-125	2	20		
Barium, Dissolved	mg/L	21.0 ug/L	0.1	0.1	0.12	0.13	103	106	75-125	2	20		
Beryllium, Dissolved	mg/L	ND	0.1	0.1	0.089	0.093	89	93	75-125	4	20		
Boron, Dissolved	mg/L	90.1 ug/L	1	1	0.99	1.0	90	92	75-125	2	20		
Cadmium, Dissolved	mg/L	ND	0.1	0.1	0.10	0.10	103	105	75-125	2	20		
Chromium, Dissolved	mg/L	ND	0.1	0.1	0.094	0.096	93	95	75-125	2	20		
Cobalt, Dissolved	mg/L	ND	0.1	0.1	0.093	0.094	93	94	75-125	1	20		
Lead, Dissolved	mg/L	ND	0.1	0.1	0.10	0.10	102	104	75-125	2	20		
Lithium, Dissolved	mg/L	ND	0.1	0.1	0.093	0.097	91	96	75-125	5	20		
Molybdenum, Dissolved	mg/L	ND	0.1	0.1	0.10	0.11	103	106	75-125	2	20		

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**QUALITY CONTROL DATA**

Project: Plant McD AP-2, 3/4 Supplement  
 Pace Project No.: 92650184

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3937386												3937387	
Parameter	Units	92652963002 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max	Qual	
			Spike Conc.	Spike Conc.							RPD		
Selenium, Dissolved	mg/L	ND	0.1	0.1	0.10	0.10	102	102	75-125	0	20		
Thallium, Dissolved	mg/L	ND	0.1	0.1	0.10	0.10	101	103	75-125	2	20		

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**QUALITY CONTROL DATA**

Project: Plant McD AP-2, 3/4 Supplement

Pace Project No.: 92650184

QC Batch: 757772	Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A	Analysis Description: 7470 Mercury
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92650184006

METHOD BLANK: 3936482 Matrix: Water

Associated Lab Samples: 92650184006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/24/23 11:05	

LABORATORY CONTROL SAMPLE: 3936483

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: 3936484 3936485

Parameter	Units	3936484		3936485		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	92651415001 ND	0.0025	0.0025	0.0021	0.0021	83	84	75-125	1	20

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**QUALITY CONTROL DATA**

Project: Plant McD AP-2, 3/4 Supplement

Pace Project No.: 92650184

QC Batch: 757770	Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A	Analysis Description: 7470 Mercury Dissolved
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92650184006

METHOD BLANK: 3936470 Matrix: Water

Associated Lab Samples: 92650184006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury, Dissolved	mg/L	ND	0.00020	0.00013	02/24/23 08:34	

LABORATORY CONTROL SAMPLE: 3936471

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	mg/L	0.0025	0.0023	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3936472 3936473

Parameter	Units	3936472		3936473		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury, Dissolved	mg/L	ND	0.0025	0.0023	0.0023	90	91	75-125	1	20	

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**QUALITY CONTROL DATA**

Project: Plant McD AP-2, 3/4 Supplement  
 Pace Project No.: 92650184

QC Batch: 755982 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: 92650184006

METHOD BLANK: 3927602 Matrix: Water  
 Associated Lab Samples: 92650184006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/15/23 11:50	

LABORATORY CONTROL SAMPLE: 3927603

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	377	94	80-120	

SAMPLE DUPLICATE: 3927604

Parameter	Units	92651771004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	31.0	29.0	7	10	

SAMPLE DUPLICATE: 3927605

Parameter	Units	92650184006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	619	623	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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**QUALITY CONTROL DATA**

Project: Plant McD AP-2, 3/4 Supplement  
 Pace Project No.: 92650184

QC Batch: 756264 Analysis Method: SM 2320B-2011  
 QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity  
 Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92650184006

METHOD BLANK: 3929037 Matrix: Water  
 Associated Lab Samples: 92650184006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/17/23 15:34	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/17/23 15:34	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/17/23 15:34	

LABORATORY CONTROL SAMPLE: 3929038

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

LABORATORY CONTROL SAMPLE: 3929039

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.3	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3929040 3929041

Parameter	Units	3929040		3929041		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		92651382018 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Alkalinity, Total as CaCO3	mg/L	57.7	50	50	111	113	107	111	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3929042 3929043

Parameter	Units	3929042		3929043		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		92651382019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Alkalinity, Total as CaCO3	mg/L	26.4	50	50	78.1	79.1	103	105	80-120	1	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: Plant McD AP-2, 3/4 Supplement

Pace Project No.: 92650184

QC Batch: 755597	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: 92650184006

METHOD BLANK: 3925890 Matrix: Water

Associated Lab Samples: 92650184006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/14/23 05:55	
Fluoride	mg/L	ND	0.10	0.050	02/14/23 05:55	
Sulfate	mg/L	ND	1.0	0.50	02/14/23 05:55	

LABORATORY CONTROL SAMPLE: 3925891

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	52.1	104	90-110	
Fluoride	mg/L	2.5	2.7	108	90-110	
Sulfate	mg/L	50	52.3	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3925892 3925893

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92651382015 Result	Spike Conc.	Spike Conc.	Result								
Chloride	mg/L	1.1	50	50	51.8	52.9	101	103	90-110	2	10		
Fluoride	mg/L	0.16	2.5	2.5	2.9	2.9	109	110	90-110	1	10		
Sulfate	mg/L	14.7	50	50	64.8	65.7	100	102	90-110	1	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3925894 3925895

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92651745002 Result	Spike Conc.	Spike Conc.	Result								
Chloride	mg/L	1960	50	50	1980	2000	38	74	90-110	1	10	M1	
Fluoride	mg/L	ND	2.5	2.5	ND	0.77	-2	29	90-110		10	M1	
Sulfate	mg/L	26.1	50	50	78.9	80.4	106	109	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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## QUALIFIERS

Project: Plant McD AP-2, 3/4 Supplement

Pace Project No.: 92650184

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### 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 McD AP-2, 3/4 Supplement

Pace Project No.: 92650184

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92650184001	MCD-B-90				
92650184002	MCD-B-91				
92650184003	MCD-B-96				
92650184004	MCD-B-95				
92650184005	MCD-B-99				
92650184006	MCD-B-123D				
92650184006	MCD-B-123D	EPA 3010A	757456	EPA 6010D	757555
92650184006	MCD-B-123D	EPA 3010A	756605	EPA 6010D	756664
92650184001	MCD-B-90	EPA 3005A	757280	EPA 6020B	757303
92650184002	MCD-B-91	EPA 3005A	757280	EPA 6020B	757303
92650184003	MCD-B-96	EPA 3005A	757280	EPA 6020B	757303
92650184004	MCD-B-95	EPA 3005A	757280	EPA 6020B	757303
92650184005	MCD-B-99	EPA 3005A	757280	EPA 6020B	757303
92650184006	MCD-B-123D	EPA 3005A	757280	EPA 6020B	757303
92650184006	MCD-B-123D	EPA 3005A	757952	EPA 6020B	758063
92650184006	MCD-B-123D	EPA 7470A	757772	EPA 7470A	757938
92650184006	MCD-B-123D	EPA 7470A	757770	EPA 7470A	757887
92650184006	MCD-B-123D	SM 2540C-2015	755982		
92650184006	MCD-B-123D	SM 2320B-2011	756264		
92650184006	MCD-B-123D	EPA 300.0 Rev 2.1 1993	755597		

REPORT OF LABORATORY ANALYSIS

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DC#\_Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Sample Condition Upon Receipt

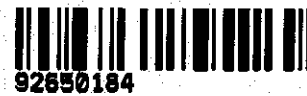
Client Name:

GA Power

Project #:

WO#: 92650184

Courier:  Commercial  Fed Ex  UPS  USPS  Client  Pace  Other:



Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 2/2/23 ext

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:

3.1

Correction Factor:

40.0

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C):

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:	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 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

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

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

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

\*\*\*Check all unpreserved Nitrates for chlorine

Project #

**W0# : 92650184**

PM: BV

Due Date: 02/16/23

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)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
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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.



DC#\_ Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Sample Condition Upon Receipt

Client Name: Georgia Power

Project #

WO#: 92650184

PM: BV Due Date: 02/16/23

CLIENT: GA-GA Power

Courier:  Commercial  Fed Ex  Pace  UPS  USPS  Other:  Client

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 2-10-23AY

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) +0.2

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

Cooler Temp Corrected (°C): 3.6

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 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 checked="" 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: 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 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

WO#: 92650184

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

Project #

PM: BV

Due Date: 02/16/23

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

\*\*\*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)	DG9A-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
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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: Georgia Power - Canal Combustion Residuals, 2480 Warner Road, Atlanta, GA 30338

Section B: Required Project Information: Report To: Lauren Oshier, Golden, Project Name: Plant #42 AC-2, 3rd Supplemental Sampling Area Network

Section C: Invoice Information: Attribution: scathodes@scathodes.com, Company Name: Scathodes, Address: 1000 Peachtree St, Atlanta, GA 30309

Requester Agency: Georgia Power, Requested Date: 10 Day FAT, Project #: GL18846952

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9, -)	MATRIX	CODE	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES							ANALYSIS TEST							Residual Chlorine (Y/N)			
								Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	App III/IV + Mg, Na, K, Fe	Cl, F, SO4	Radium 226/230/232	TDS	Alkalinity	Fe Total, Fe 3+ (Ferric calculation)		Boron		
1	MCD-B-90-WG-20230131	Passing Water	WG	10/12/23	12:43		1																		
2	MCD-B-91-WG-20230131	Water	WG	10/12/23	14:33		1																		
3	MCD-B-98-WG-20230131	Water	WG	10/12/23	16:03		1																		
4	MCD-B-99-WG-20230201	Water	WG	2/1/2023	11:25		1																		
6	MCD-B-98-WG-20230201	Water	WG	2/1/2023	14:05		1																		

921650184  
 pH = 5.36, Fe2 = 0.0 mg/L, Fe2 mg/L @ 10/12/23 at 12:43 007  
 pH = 5.26, Fe2 = 0.0 mg/L, Fe2 mg/L @ 10/12/23 at 14:33 002  
 pH = 5.04, Fe2 = 0.0 mg/L, Fe2 mg/L @ 10/12/23 at 16:10 003  
 pH = 5.26, Fe2 = 0.0 mg/L, Fe2 mg/L @ 2/1/23 at 11:25 004  
 pH = 5.81, Fe2 = 2.6 mg/L, Fe2 mg/L @ 2/1/23 at 14:10 005

ADDITIONAL COMMENTS: Task Code = MCD-CCR-ASSMT-202301

REMOVED BY / DATE: M. BATH 2/2/23 11:36  
 ACCEPTED BY / DATE: M. BATH 2/2/23 11:36

TEMP in C: \_\_\_\_\_  
 Received on Ice (Y/N): \_\_\_\_\_  
 Custody Sealed Cooler (Y/N): \_\_\_\_\_  
 Samples Intact (Y/N): \_\_\_\_\_

DATE Signed: \_\_\_\_\_

*Pasadena*

**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 Conversion Residents  
 Address: 2480 Mariner Road  
 Atlanta, GA 30338  
 Email: [JANECHESTER@pasadenalabs.com](mailto:JANECHESTER@pasadenalabs.com)  
 Phone: (478) 800-8178  
 Requested Date: 10 Day TAT

Section B  
 Requested Project Information: Report To: Lauren Carter  
 Copy To: Golder  
 Project Name: Plant 1&2 Air-2, 3&4 Supplemental Sampling Veil Network  
 Project #: GL16084822  
 Purchase Order #:   
 Project Manager: Nicole D'Orso  
 Page Profile #

Section C  
 Invoice Information: Invoice #: 85399625-0000000000  
 Company Name:   
 Address:   
 Page Date:   
 Pico Project Manager:   
 Nicole D'Orso  
 Regulatory Agency:   
 State / Location:   
 GA

ITEM #	MATRIX	CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB, D=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES				ANALYSES TEST						Residual Chlorine (Y/N)	pH = 6.28, FC2 = 4.3 mg/L (FC2 analyzed 02/08/23 at 14:59); Dissolved App Nitro media are field filters		
									H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	App Nitro + Mg, Na, K, Fe	Cl, F, SO4	Radium 226/230			TDS	Alkalinity
1	Drinking Water	DW	W3	G	2/8/23	14:40		7	3	4												
2	Water	WT																				
3	Water	WT																				
4	Water	WT																				
5	Water	WT																				
6	Water	WT																				
7	Water	WT																				
8	Water	WT																				
9	Water	WT																				
10	Water	WT																				
11	Water	WT																				
12	Water	WT																				
13	Water	WT																				
14	Water	WT																				

Task Code: MCD-COR-ASSMT-2023S1  
 REQUISITIONED BY: WSP  
 DATE: 02/14/23  
 TIME: 1225  
 ACCEPTED BY / AFFILIATION: *(Signature)*  
 DATE: 02/08/23

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

March 22, 2023

Andrea McClure  
WSP/Golder  
5170 Peachtree Road  
Building 100, Suite 300  
Atlanta, GA 30341

RE: Project: Plant McD AP 2-3/4 Detect RADS  
Pace Project No.: 92650188

Dear Andrea McClure:

Enclosed are the analytical results for sample(s) received by the laboratory between February 02, 2023 and February 08, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Greensburg

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

Sincerely,



Bonnie Vang  
bonnie.vang@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR  
Stephen Benda, Southern Company  
Noelia Gangi, Georgia Power  
Daniela Herrera, Golder  
Ben Hodges, Georgia Power-CCR  
Kristen Jurinko  
Laura Midkiff, Georgia Power  
J. Shelby Mobley, Southern Company  
Charles Norton, Southern Company  
Dawn Prell, WSP USA E&I Inc\_Atlanta  
Michael Smilley, Georgia Power

Yong Cheng Soo, WSP/Golder  
Tina Sullivan, ERM



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Plant McD AP 2-3/4 Detect RADS  
Pace Project No.: 92650188

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### **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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## REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: Plant McD AP 2-3/4 Detect RADS

Pace Project No.: 92650188

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92650188001	MCD-DGWC-42	Water	02/01/23 13:20	02/02/23 11:36
92650188002	MCD-DGWC-13	Water	02/01/23 16:16	02/02/23 11:36
92650188003	MCD-DGWC-14	Water	02/01/23 16:35	02/02/23 11:36
92650188004	MCD-AP234-FD-4	Water	02/01/23 00:00	02/02/23 11:36
92650188005	MCD-DGWC-10	Water	02/02/23 10:10	02/03/23 16:23
92650188006	MCD-DGWC-15	Water	02/02/23 15:00	02/03/23 16:23
92650188007	MCD-DGWC-47	Water	02/03/23 12:47	02/03/23 16:23
92650188008	MCD-DGWC-4	Water	02/03/23 12:25	02/03/23 16:23
92650188009	MCD-DGWC-48	Water	02/03/23 09:50	02/03/23 16:23
92650188010	MCD-AP234-EB-3	Water	02/03/23 13:15	02/03/23 16:23
92650188011	MCD-AP234-EB-2	Water	02/02/23 15:05	02/03/23 16:23
92650188012	MCD-DGWC-9	Water	02/03/23 11:50	02/03/23 16:23
92650188013	MCD-AP234-FD-2	Water	02/03/23 00:00	02/03/23 16:23
92650188014	MCD-DGWC-2	Water	02/06/23 09:55	02/07/23 11:10
92650188015	MCD-DGWC-11	Water	02/06/23 16:31	02/07/23 11:10
92650188016	MCD-DGWC-12	Water	02/06/23 13:45	02/07/23 11:10
92650188017	MCD-DGWC-17	Water	02/06/23 10:50	02/07/23 11:10
92650188018	MCD-DGWC-19	Water	02/06/23 12:50	02/07/23 11:10
92650188019	MCD-DGWC-22	Water	02/06/23 15:10	02/07/23 11:10
92650188020	MCD-DGWC-23	Water	02/06/23 14:10	02/07/23 11:10
92650188021	MCD-AP234-EB-4	Water	02/06/23 15:55	02/07/23 11:10
92650188022	MCD-234-FD-3	Water	02/06/23 00:00	02/07/23 11:10
92650188023	MCD-234-FD-5	Water	02/06/23 00:00	02/07/23 11:10
92650188024	MCD-AP234-FB-4	Water	02/06/23 09:50	02/07/23 11:10
92650188025	MCD-DGWC-5	Water	02/07/23 10:00	02/08/23 13:58
92650188026	MCD-DGWC-8	Water	02/07/23 12:00	02/08/23 13:58
92650188027	MCD-DGWC-20	Water	02/07/23 10:38	02/08/23 13:58
92650188028	MCD-DGWC-21	Water	02/07/23 14:56	02/08/23 13:58
92650188029	MCD-AP234-EB-5	Water	02/07/23 09:00	02/08/23 13:58
92650188030	MCD-AP234-FB-5	Water	02/07/23 10:30	02/08/23 13:58
92650188031	MCD-234-FD-6	Water	02/07/23 00:00	02/08/23 13:58
92650186012	MCD-AP234-FB-3	Water	02/03/23 09:35	02/03/23 16:23

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Plant McD AP 2-3/4 Detect RADS  
Pace Project No.: 92650188

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92650188001	MCD-DGWC-42	EPA 9315	RMS	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92650188002	MCD-DGWC-13	EPA 9315	RMS	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92650188003	MCD-DGWC-14	EPA 9315	RMS	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92650188004	MCD-AP234-FD-4	EPA 9315	RMS	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92650188005	MCD-DGWC-10	EPA 9315	RMS	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92650188006	MCD-DGWC-15	EPA 9315	RMS	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92650188007	MCD-DGWC-47	EPA 9315	RMS	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92650188008	MCD-DGWC-4	EPA 9315	RMS	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92650188009	MCD-DGWC-48	EPA 9315	RMS	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92650188010	MCD-AP234-EB-3	EPA 9315	RMS	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92650188011	MCD-AP234-EB-2	EPA 9315	RMS	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92650188012	MCD-DGWC-9	EPA 9315	RMS	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92650188013	MCD-AP234-FD-2	EPA 9315	RMS	1	PASI-PA

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Plant McD AP 2-3/4 Detect RADS  
Pace Project No.: 92650188

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92650188014	MCD-DGWC-2	EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
92650188015	MCD-DGWC-11	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
92650188016	MCD-DGWC-12	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
92650188017	MCD-DGWC-17	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
92650188018	MCD-DGWC-19	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
92650188019	MCD-DGWC-22	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
92650188020	MCD-DGWC-23	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
92650188021	MCD-AP234-EB-4	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
92650188022	MCD-234-FD-3	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
92650188023	MCD-234-FD-5	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
92650188024	MCD-AP234-FB-4	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
92650188025	MCD-DGWC-5	EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA

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### SAMPLE ANALYTE COUNT

Project: Plant McD AP 2-3/4 Detect RADS  
Pace Project No.: 92650188

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92650188026	MCD-DGWC-8	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
92650188027	MCD-DGWC-20	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
92650188028	MCD-DGWC-21	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
92650188029	MCD-AP234-EB-5	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
92650188030	MCD-AP234-FB-5	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
92650188031	MCD-234-FD-6	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
92650186012	MCD-AP234-FB-3	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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## PROJECT NARRATIVE

Project: Plant McD AP 2-3/4 Detect RADS

Pace Project No.: 92650188

---

**Date:** March 22, 2023

Georgia Power EQulS Database Manager requested Pace Project Manager remove the sample matrix and date from the Sample IDs. This update ensures sample nomenclature is followed on final PDF and EDD for successful upload of laboratory data into the Georgia Power EQulS database.

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Plant McD AP 2-3/4 Detect RADS

Pace Project No.: 92650188

---

**Method:** EPA 9315

**Description:** 9315 Total Radium

**Client:** Georgia Power

**Date:** March 22, 2023

**General Information:**

32 samples were analyzed for EPA 9315 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Plant McD AP 2-3/4 Detect RADS

Pace Project No.: 92650188

---

**Method:** EPA 9320

**Description:** 9320 Radium 228

**Client:** Georgia Power

**Date:** March 22, 2023

**General Information:**

32 samples were analyzed for EPA 9320 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Plant McD AP 2-3/4 Detect RADS

Pace Project No.: 92650188

---

**Method:** Total Radium Calculation

**Description:** Total Radium 228+226

**Client:** Georgia Power

**Date:** March 22, 2023

**General Information:**

32 samples were analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP 2-3/4 Detect RADS

Pace Project No.: 92650188

**Sample: MCD-DGWC-42**      **Lab ID: 92650188001**      Collected: 02/01/23 13:20      Received: 02/02/23 11:36      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	<b>0.181 ± 0.152 (0.259)</b> <b>C:99% T:NA</b>	pCi/L	02/17/23 18:48	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.418 ± 0.292 (0.557)</b> <b>C:84% T:87%</b>	pCi/L	02/14/23 13:14	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.599 ± 0.444 (0.816)</b>	pCi/L	02/21/23 11:36	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP 2-3/4 Detect RADS

Pace Project No.: 92650188

**Sample: MCD-DGWC-13**      **Lab ID: 92650188002**      Collected: 02/01/23 16:16      Received: 02/02/23 11:36      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	<b>0.152 ± 0.159 (0.305)</b> <b>C:96% T:NA</b>	pCi/L	02/17/23 18:49	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.667 ± 0.340 (0.590)</b> <b>C:84% T:88%</b>	pCi/L	02/14/23 13:14	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.819 ± 0.499 (0.895)</b>	pCi/L	02/21/23 11:36	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP 2-3/4 Detect RADS

Pace Project No.: 92650188

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: MCD-DGWC-14</b> <b>Lab ID: 92650188003</b> Collected: 02/01/23 16:35      Received: 02/02/23 11:36      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.288 ± 0.192 (0.285)</b> <b>C:94% T:NA</b>	pCi/L	02/17/23 18:49	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.506 ± 0.340 (0.644)</b> <b>C:85% T:78%</b>	pCi/L	02/14/23 13:14	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.794 ± 0.532 (0.929)</b>	pCi/L	02/21/23 11:36	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP 2-3/4 Detect RADS

Pace Project No.: 92650188

**Sample: MCD-AP234-FD-4**      **Lab ID: 92650188004**      Collected: 02/01/23 00:00      Received: 02/02/23 11:36      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	<b>0.153 ± 0.162 (0.316)</b> <b>C:98% T:NA</b>	pCi/L	02/17/23 18:49	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.254 ± 0.237 (0.476)</b> <b>C:87% T:90%</b>	pCi/L	02/14/23 13:14	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.407 ± 0.399 (0.792)</b>	pCi/L	02/21/23 11:36	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP 2-3/4 Detect RADS

Pace Project No.: 92650188

**Sample: MCD-DGWC-10**      **Lab ID: 92650188005**      Collected: 02/02/23 10:10      Received: 02/03/23 16:23      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	<b>0.285 ± 0.169 (0.229)</b> <b>C:87% T:NA</b>	pCi/L	02/28/23 09:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>1.18 ± 0.416 (0.550)</b> <b>C:84% T:83%</b>	pCi/L	02/28/23 12:37	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.47 ± 0.585 (0.779)</b>	pCi/L	02/28/23 16:08	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP 2-3/4 Detect RADS

Pace Project No.: 92650188

**Sample: MCD-DGWC-15**      **Lab ID: 92650188006**      Collected: 02/02/23 15:00      Received: 02/03/23 16:23      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	<b>0.0843 ± 0.124 (0.267)</b> <b>C:82% T:NA</b>	pCi/L	02/28/23 09:30	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.907 ± 0.375 (0.561)</b> <b>C:81% T:83%</b>	pCi/L	02/28/23 12:37	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.991 ± 0.499 (0.828)</b>	pCi/L	02/28/23 16:08	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP 2-3/4 Detect RADS

Pace Project No.: 92650188

**Sample: MCD-DGWC-47**      **Lab ID: 92650188007**      Collected: 02/03/23 12:47      Received: 02/03/23 16:23      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	<b>0.652 ± 0.257 (0.254)</b> <b>C:83% T:NA</b>	pCi/L	02/28/23 09:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>1.15 ± 0.433 (0.611)</b> <b>C:80% T:80%</b>	pCi/L	02/28/23 12:37	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.80 ± 0.690 (0.865)</b>	pCi/L	02/28/23 16:08	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP 2-3/4 Detect RADS

Pace Project No.: 92650188

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: MCD-DGWC-4</b> <b>Lab ID: 92650188008</b> Collected: 02/03/23 12:25      Received: 02/03/23 16:23      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.265 ± 0.157 (0.197)</b> <b>C:87% T:NA</b>	pCi/L	02/28/23 09:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>1.24 ± 0.471 (0.734)</b> <b>C:84% T:88%</b>	pCi/L	02/28/23 12:37	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.51 ± 0.628 (0.931)</b>	pCi/L	02/28/23 16:08	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP 2-3/4 Detect RADS

Pace Project No.: 92650188

**Sample: MCD-DGWC-48**      **Lab ID: 92650188009**      Collected: 02/03/23 09:50      Received: 02/03/23 16:23      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	<b>0.253 ± 0.172 (0.264)</b> <b>C:75% T:NA</b>	pCi/L	02/28/23 09:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>1.15 ± 0.444 (0.688)</b> <b>C:86% T:86%</b>	pCi/L	02/28/23 12:37	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.40 ± 0.616 (0.952)</b>	pCi/L	02/28/23 16:08	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP 2-3/4 Detect RADS

Pace Project No.: 92650188

**Sample: MCD-AP234-EB-3**      **Lab ID: 92650188010**      Collected: 02/03/23 13:15      Received: 02/03/23 16:23      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	<b>0.0246 ± 0.0915 (0.237)</b> <b>C:80% T:NA</b>	pCi/L	02/28/23 10:14	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.499 ± 0.392 (0.785)</b> <b>C:80% T:89%</b>	pCi/L	02/28/23 12:37	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.524 ± 0.484 (1.02)</b>	pCi/L	02/28/23 16:08	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP 2-3/4 Detect RADS

Pace Project No.: 92650188

**Sample: MCD-AP234-EB-2**      **Lab ID: 92650188011**      Collected: 02/02/23 15:05      Received: 02/03/23 16:23      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	<b>0.114 ± 0.126 (0.249)</b> <b>C:86% T:NA</b>	pCi/L	02/28/23 10:13	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.593 ± 0.418 (0.823)</b> <b>C:81% T:88%</b>	pCi/L	02/28/23 12:37	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.707 ± 0.544 (1.07)</b>	pCi/L	02/28/23 16:08	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP 2-3/4 Detect RADS

Pace Project No.: 92650188

**Sample: MCD-DGWC-9**      **Lab ID: 92650188012**      Collected: 02/03/23 11:50      Received: 02/03/23 16:23      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	<b>0.299 ± 0.178 (0.243)</b> <b>C:79% T:NA</b>	pCi/L	02/28/23 09:30	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.650 ± 0.390 (0.724)</b> <b>C:84% T:80%</b>	pCi/L	02/28/23 12:37	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.949 ± 0.568 (0.967)</b>	pCi/L	02/28/23 16:08	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP 2-3/4 Detect RADS

Pace Project No.: 92650188

**Sample: MCD-AP234-FD-2**      **Lab ID: 92650188013**      Collected: 02/03/23 00:00      Received: 02/03/23 16:23      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	<b>0.276 ± 0.167 (0.225)</b> <b>C:83% T:NA</b>	pCi/L	02/28/23 09:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.762 ± 0.402 (0.695)</b> <b>C:68% T:87%</b>	pCi/L	02/28/23 12:38	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.04 ± 0.569 (0.920)</b>	pCi/L	02/28/23 16:08	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP 2-3/4 Detect RADS

Pace Project No.: 92650188

**Sample: MCD-DGWC-2**      **Lab ID: 92650188014**      Collected: 02/06/23 09:55      Received: 02/07/23 11:10      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	<b>0.180 ± 0.139 (0.239)</b> <b>C:81% T:NA</b>	pCi/L	02/28/23 19:13	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.320 ± 0.514 (1.12)</b> <b>C:79% T:80%</b>	pCi/L	02/28/23 17:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.500 ± 0.653 (1.36)</b>	pCi/L	03/03/23 15:28	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP 2-3/4 Detect RADS

Pace Project No.: 92650188

**Sample: MCD-DGWC-11**      **Lab ID: 92650188015**      Collected: 02/06/23 16:31      Received: 02/07/23 11:10      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	<b>0.0654 ± 0.105 (0.229)</b> <b>C:88% T:NA</b>	pCi/L	03/01/23 09:36	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.377 ± 0.516 (1.10)</b> <b>C:80% T:81%</b>	pCi/L	02/28/23 17:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.442 ± 0.621 (1.33)</b>	pCi/L	03/03/23 15:28	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP 2-3/4 Detect RADS

Pace Project No.: 92650188

**Sample: MCD-DGWC-12**      **Lab ID: 92650188016**      Collected: 02/06/23 13:45      Received: 02/07/23 11:10      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	<b>0.193 ± 0.157 (0.272)</b> <b>C:80% T:NA</b>	pCi/L	03/01/23 09:36	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.810 ± 0.566 (1.09)</b> <b>C:81% T:86%</b>	pCi/L	02/28/23 17:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.00 ± 0.723 (1.36)</b>	pCi/L	03/03/23 15:28	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP 2-3/4 Detect RADS

Pace Project No.: 92650188

**Sample: MCD-DGWC-17**      **Lab ID: 92650188017**      Collected: 02/06/23 10:50      Received: 02/07/23 11:10      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	<b>0.0993 ± 0.109 (0.212)</b> <b>C:92% T:NA</b>	pCi/L	03/01/23 09:36	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.710 ± 0.563 (1.10)</b> <b>C:76% T:82%</b>	pCi/L	02/28/23 17:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.809 ± 0.672 (1.31)</b>	pCi/L	03/03/23 15:28	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP 2-3/4 Detect RADS

Pace Project No.: 92650188

**Sample: MCD-DGWC-19**      **Lab ID: 92650188018**      Collected: 02/06/23 12:50      Received: 02/07/23 11:10      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	<b>0.172 ± 0.115 (0.158)</b> <b>C:93% T:NA</b>	pCi/L	03/01/23 09:36	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>1.06 ± 0.458 (0.712)</b> <b>C:84% T:75%</b>	pCi/L	02/28/23 17:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.23 ± 0.573 (0.870)</b>	pCi/L	03/03/23 15:28	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP 2-3/4 Detect RADS

Pace Project No.: 92650188

**Sample: MCD-DGWC-22**      **Lab ID: 92650188019**      Collected: 02/06/23 15:10      Received: 02/07/23 11:10      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	<b>0.103 ± 0.103 (0.191)</b> <b>C:95% T:NA</b>	pCi/L	03/01/23 09:36	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.872 ± 0.439 (0.756)</b> <b>C:87% T:79%</b>	pCi/L	02/28/23 17:06	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.975 ± 0.542 (0.947)</b>	pCi/L	03/03/23 15:28	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP 2-3/4 Detect RADS

Pace Project No.: 92650188

**Sample: MCD-DGWC-23**      **Lab ID: 92650188020**      Collected: 02/06/23 14:10      Received: 02/07/23 11:10      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	<b>0.254 ± 0.151 (0.203)</b> <b>C:74% T:NA</b>	pCi/L	03/01/23 09:36	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>1.19 ± 0.463 (0.686)</b> <b>C:87% T:82%</b>	pCi/L	02/28/23 17:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.44 ± 0.614 (0.889)</b>	pCi/L	03/03/23 15:28	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP 2-3/4 Detect RADS

Pace Project No.: 92650188

**Sample: MCD-AP234-EB-4**      **Lab ID: 92650188021**      Collected: 02/06/23 15:55      Received: 02/07/23 11:10      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	<b>-0.0168 ± 0.0557 (0.188)</b> <b>C:95% T:NA</b>	pCi/L	03/01/23 09:36	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.279 ± 0.259 (0.517)</b> <b>C:84% T:96%</b>	pCi/L	02/28/23 17:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.279 ± 0.315 (0.705)</b>	pCi/L	03/03/23 15:28	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP 2-3/4 Detect RADS

Pace Project No.: 92650188

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: MCD-234-FD-3</b> <b>Lab ID: 92650188022</b> Collected: 02/06/23 00:00      Received: 02/07/23 11:10      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.174 ± 0.124 (0.189)</b> <b>C:90% T:NA</b>	pCi/L	03/01/23 09:36	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.135 ± 0.295 (0.655)</b> <b>C:83% T:82%</b>	pCi/L	02/28/23 17:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.309 ± 0.419 (0.844)</b>	pCi/L	03/03/23 15:28	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP 2-3/4 Detect RADS

Pace Project No.: 92650188

**Sample: MCD-234-FD-5**      **Lab ID: 92650188023**      Collected: 02/06/23 00:00      Received: 02/07/23 11:10      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	<b>0.304 ± 0.170 (0.270)</b> <b>C:91% T:NA</b>	pCi/L	03/01/23 09:09	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.791 ± 0.399 (0.684)</b> <b>C:83% T:88%</b>	pCi/L	02/28/23 17:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.10 ± 0.569 (0.954)</b>	pCi/L	03/03/23 15:28	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP 2-3/4 Detect RADS

Pace Project No.: 92650188

**Sample: MCD-AP234-FB-4**      **Lab ID: 92650188024**      Collected: 02/06/23 09:50      Received: 02/07/23 11:10      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	<b>0.0176 ± 0.0710 (0.182)</b> <b>C:96% T:NA</b>	pCi/L	03/01/23 09:11	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.286 ± 0.364 (0.774)</b> <b>C:85% T:82%</b>	pCi/L	02/28/23 17:07	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.304 ± 0.435 (0.956)</b>	pCi/L	03/03/23 15:28	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP 2-3/4 Detect RADS

Pace Project No.: 92650188

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: MCD-DGWC-5</b> <b>Lab ID: 92650188025</b> Collected: 02/07/23 10:00      Received: 02/08/23 13:58      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.540 ± 0.250 (0.343)</b> <b>C:93% T:NA</b>	pCi/L	02/20/23 10:18	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.721 ± 0.393 (0.717)</b> <b>C:89% T:94%</b>	pCi/L	02/20/23 15:17	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.26 ± 0.643 (1.06)</b>	pCi/L	03/21/23 16:16	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP 2-3/4 Detect RADS

Pace Project No.: 92650188

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: MCD-DGWC-8</b> <b>Lab ID: 92650188026</b> Collected: 02/07/23 12:00      Received: 02/08/23 13:58      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.214 ± 0.169 (0.293)</b> <b>C:94% T:NA</b>	pCi/L	02/20/23 10:18	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.523 ± 0.371 (0.721)</b> <b>C:89% T:86%</b>	pCi/L	02/20/23 15:17	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.737 ± 0.540 (1.01)</b>	pCi/L	03/21/23 16:16	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP 2-3/4 Detect RADS

Pace Project No.: 92650188

**Sample: MCD-DGWC-20**      **Lab ID: 92650188027**      Collected: 02/07/23 10:38      Received: 02/08/23 13:58      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	<b>0.505 ± 0.255 (0.376)</b> <b>C:92% T:NA</b>	pCi/L	02/20/23 10:34	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>1.41 ± 0.484 (0.678)</b> <b>C:89% T:90%</b>	pCi/L	02/20/23 15:17	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.92 ± 0.739 (1.05)</b>	pCi/L	03/21/23 16:16	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP 2-3/4 Detect RADS

Pace Project No.: 92650188

**Sample: MCD-DGWC-21**      **Lab ID: 92650188028**      Collected: 02/07/23 14:56      Received: 02/08/23 13:58      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	<b>0.120 ± 0.122 (0.219)</b> <b>C:90% T:NA</b>	pCi/L	02/20/23 10:18	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.462 ± 0.372 (0.746)</b> <b>C:90% T:90%</b>	pCi/L	02/20/23 15:17	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.582 ± 0.494 (0.965)</b>	pCi/L	03/21/23 16:16	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP 2-3/4 Detect RADS

Pace Project No.: 92650188

**Sample: MCD-AP234-EB-5**      **Lab ID: 92650188029**      Collected: 02/07/23 09:00      Received: 02/08/23 13:58      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	<b>0.125 ± 0.144 (0.287)</b> <b>C:91% T:NA</b>	pCi/L	02/20/23 08:54	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.972 ± 0.434 (0.733)</b> <b>C:90% T:90%</b>	pCi/L	02/20/23 15:17	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.10 ± 0.578 (1.02)</b>	pCi/L	03/21/23 16:16	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP 2-3/4 Detect RADS

Pace Project No.: 92650188

**Sample: MCD-AP234-FB-5**      **Lab ID: 92650188030**      Collected: 02/07/23 10:30      Received: 02/08/23 13:58      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	<b>-0.0706 ± 0.125 (0.388)</b> <b>C:90% T:NA</b>	pCi/L	02/20/23 08:55	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.629 ± 0.365 (0.676)</b> <b>C:89% T:94%</b>	pCi/L	02/20/23 15:17	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.629 ± 0.490 (1.06)</b>	pCi/L	03/21/23 16:16	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP 2-3/4 Detect RADS

Pace Project No.: 92650188

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: MCD-234-FD-6</b> <b>Lab ID: 92650188031</b> Collected: 02/07/23 00:00      Received: 02/08/23 13:58      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>-0.0760 ± 0.0638 (0.280)</b> <b>C:90% T:NA</b>	pCi/L	02/20/23 08:57	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.921 ± 0.407 (0.672)</b> <b>C:88% T:92%</b>	pCi/L	02/20/23 15:17	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.921 ± 0.471 (0.952)</b>	pCi/L	03/21/23 16:16	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP 2-3/4 Detect RADS

Pace Project No.: 92650188

**Sample: MCD-AP234-FB-3**      **Lab ID: 92650186012**      Collected: 02/03/23 09:35      Received: 02/03/23 16:23      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	<b>0.106 ± 0.0952 (0.159)</b> <b>C:84% T:NA</b>	pCi/L	02/27/23 19:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.0473 ± 0.288 (0.655)</b> <b>C:89% T:101%</b>	pCi/L	02/21/23 11:59	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.153 ± 0.383 (0.814)</b>	pCi/L	02/28/23 15:11	7440-14-4	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD AP 2-3/4 Detect RADS

Pace Project No.: 92650188

QC Batch: 567003

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92650188025, 92650188026, 92650188027, 92650188028, 92650188029, 92650188030, 92650188031

METHOD BLANK: 2753256

Matrix: Water

Associated Lab Samples: 92650188025, 92650188026, 92650188027, 92650188028, 92650188029, 92650188030, 92650188031

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0414 ± 0.0994 (0.240) C:92% T:NA	pCi/L	02/20/23 10:18	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD AP 2-3/4 Detect RADS

Pace Project No.: 92650188

QC Batch: 565963

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples:

METHOD BLANK: 2748585

Matrix: Water

Associated Lab Samples:

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.446 ± 0.307 (0.579) C:73% T:96%	pCi/L	02/21/23 15:11	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD AP 2-3/4 Detect RADS

Pace Project No.: 92650188

QC Batch: 565962

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples:

METHOD BLANK: 2748582

Matrix: Water

Associated Lab Samples:

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0953 ± 0.0922 (0.167) C:96% T:NA	pCi/L	02/23/23 12:08	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD AP 2-3/4 Detect RADS

Pace Project No.: 92650188

QC Batch: 566525

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92650188014, 92650188015, 92650188016, 92650188017, 92650188018, 92650188019, 92650188020, 92650188021, 92650188022, 92650188023, 92650188024

METHOD BLANK: 2751474

Matrix: Water

Associated Lab Samples: 92650188014, 92650188015, 92650188016, 92650188017, 92650188018, 92650188019, 92650188020, 92650188021, 92650188022, 92650188023, 92650188024

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0900 ± 0.112 (0.227) C:97% T:NA	pCi/L	02/28/23 21:17	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD AP 2-3/4 Detect RADS  
Pace Project No.: 92650188

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QC Batch:	565966	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92650188005, 92650188006, 92650188007, 92650188008, 92650188009, 92650188010, 92650188011, 92650188012, 92650188013

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METHOD BLANK: 2748589 Matrix: Water

Associated Lab Samples: 92650188005, 92650188006, 92650188007, 92650188008, 92650188009, 92650188010, 92650188011, 92650188012, 92650188013

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.221 ± 0.151 (0.221) C:84% T:NA	pCi/L	02/28/23 09:30	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD AP 2-3/4 Detect RADS

Pace Project No.: 92650188

QC Batch: 565964

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92650186012

METHOD BLANK: 2748587

Matrix: Water

Associated Lab Samples: 92650186012

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0712 ± 0.0809 (0.156) C:99% T:NA	pCi/L	02/27/23 19:32	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD AP 2-3/4 Detect RADS

Pace Project No.: 92650188

QC Batch: 565967

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92650188005, 92650188006, 92650188007, 92650188008, 92650188009, 92650188010, 92650188011, 92650188012, 92650188013

METHOD BLANK: 2748590

Matrix: Water

Associated Lab Samples: 92650188005, 92650188006, 92650188007, 92650188008, 92650188009, 92650188010, 92650188011, 92650188012, 92650188013

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.409 ± 0.324 (0.634) C:77% T:88%	pCi/L	02/28/23 12:36	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD AP 2-3/4 Detect RADS

Pace Project No.: 92650188

QC Batch: 565965

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92650186012

METHOD BLANK: 2748588

Matrix: Water

Associated Lab Samples: 92650186012

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.343 ± 0.275 (0.547) C:87% T:103%	pCi/L	02/21/23 11:58	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD AP 2-3/4 Detect RADS  
Pace Project No.: 92650188

QC Batch:	566526	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg
Associated Lab Samples:	92650188014, 92650188015, 92650188016, 92650188017, 92650188018, 92650188019, 92650188020, 92650188021, 92650188022, 92650188023, 92650188024		

METHOD BLANK:	2751475	Matrix:	Water
Associated Lab Samples:	92650188014, 92650188015, 92650188016, 92650188017, 92650188018, 92650188019, 92650188020, 92650188021, 92650188022, 92650188023, 92650188024		

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.0292 ± 0.364 (0.848) C:73% T:77%	pCi/L	02/28/23 13:30	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD AP 2-3/4 Detect RADS

Pace Project No.: 92650188

QC Batch: 565151

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92650188001, 92650188002, 92650188003, 92650188004

METHOD BLANK: 2743953

Matrix: Water

Associated Lab Samples: 92650188001, 92650188002, 92650188003, 92650188004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0640 ± 0.166 (0.397) C:100% T:NA	pCi/L	02/17/23 19:36	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD AP 2-3/4 Detect RADS

Pace Project No.: 92650188

QC Batch: 565150

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92650188001, 92650188002, 92650188003, 92650188004

METHOD BLANK: 2743952

Matrix: Water

Associated Lab Samples: 92650188001, 92650188002, 92650188003, 92650188004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.323 ± 0.277 (0.553) C:86% T:88%	pCi/L	02/14/23 13:14	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD AP 2-3/4 Detect RADS

Pace Project No.: 92650188

QC Batch: 567006

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92650188025, 92650188026, 92650188027, 92650188028, 92650188029, 92650188030, 92650188031

METHOD BLANK: 2753261

Matrix: Water

Associated Lab Samples: 92650188025, 92650188026, 92650188027, 92650188028, 92650188029, 92650188030, 92650188031

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.472 ± 0.269 (0.470) C:89% T:96%	pCi/L	02/20/23 15:18	

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## QUALIFIERS

Project: Plant McD AP 2-3/4 Detect RADS  
Pace Project No.: 92650188

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### DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McD AP 2-3/4 Detect RADS  
Pace Project No.: 92650188

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92650188001	MCD-DGWC-42	EPA 9315	565151		
92650188002	MCD-DGWC-13	EPA 9315	565151		
92650188003	MCD-DGWC-14	EPA 9315	565151		
92650188004	MCD-AP234-FD-4	EPA 9315	565151		
92650188005	MCD-DGWC-10	EPA 9315	565966		
92650188006	MCD-DGWC-15	EPA 9315	565966		
92650188007	MCD-DGWC-47	EPA 9315	565966		
92650188008	MCD-DGWC-4	EPA 9315	565966		
92650188009	MCD-DGWC-48	EPA 9315	565966		
92650188010	MCD-AP234-EB-3	EPA 9315	565966		
92650188011	MCD-AP234-EB-2	EPA 9315	565966		
92650188012	MCD-DGWC-9	EPA 9315	565966		
92650188013	MCD-AP234-FD-2	EPA 9315	565966		
92650186012	MCD-AP234-FB-3	EPA 9315	565964		
92650188014	MCD-DGWC-2	EPA 9315	566525		
92650188015	MCD-DGWC-11	EPA 9315	566525		
92650188016	MCD-DGWC-12	EPA 9315	566525		
92650188017	MCD-DGWC-17	EPA 9315	566525		
92650188018	MCD-DGWC-19	EPA 9315	566525		
92650188019	MCD-DGWC-22	EPA 9315	566525		
92650188020	MCD-DGWC-23	EPA 9315	566525		
92650188021	MCD-AP234-EB-4	EPA 9315	566525		
92650188022	MCD-234-FD-3	EPA 9315	566525		
92650188023	MCD-234-FD-5	EPA 9315	566525		
92650188024	MCD-AP234-FB-4	EPA 9315	566525		
92650188025	MCD-DGWC-5	EPA 9315	567003		
92650188026	MCD-DGWC-8	EPA 9315	567003		
92650188027	MCD-DGWC-20	EPA 9315	567003		
92650188028	MCD-DGWC-21	EPA 9315	567003		
92650188029	MCD-AP234-EB-5	EPA 9315	567003		
92650188030	MCD-AP234-FB-5	EPA 9315	567003		
92650188031	MCD-234-FD-6	EPA 9315	567003		
92650188001	MCD-DGWC-42	EPA 9320	565150		
92650188002	MCD-DGWC-13	EPA 9320	565150		
92650188003	MCD-DGWC-14	EPA 9320	565150		
92650188004	MCD-AP234-FD-4	EPA 9320	565150		
92650188005	MCD-DGWC-10	EPA 9320	565967		
92650188006	MCD-DGWC-15	EPA 9320	565967		
92650188007	MCD-DGWC-47	EPA 9320	565967		
92650188008	MCD-DGWC-4	EPA 9320	565967		
92650188009	MCD-DGWC-48	EPA 9320	565967		
92650188010	MCD-AP234-EB-3	EPA 9320	565967		
92650188011	MCD-AP234-EB-2	EPA 9320	565967		
92650188012	MCD-DGWC-9	EPA 9320	565967		
92650188013	MCD-AP234-FD-2	EPA 9320	565967		

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McD AP 2-3/4 Detect RADS  
Pace Project No.: 92650188

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92650186012	MCD-AP234-FB-3	EPA 9320	565965		
92650188014	MCD-DGWC-2	EPA 9320	566526		
92650188015	MCD-DGWC-11	EPA 9320	566526		
92650188016	MCD-DGWC-12	EPA 9320	566526		
92650188017	MCD-DGWC-17	EPA 9320	566526		
92650188018	MCD-DGWC-19	EPA 9320	566526		
92650188019	MCD-DGWC-22	EPA 9320	566526		
92650188020	MCD-DGWC-23	EPA 9320	566526		
92650188021	MCD-AP234-EB-4	EPA 9320	566526		
92650188022	MCD-234-FD-3	EPA 9320	566526		
92650188023	MCD-234-FD-5	EPA 9320	566526		
92650188024	MCD-AP234-FB-4	EPA 9320	566526		
92650188025	MCD-DGWC-5	EPA 9320	567006		
92650188026	MCD-DGWC-8	EPA 9320	567006		
92650188027	MCD-DGWC-20	EPA 9320	567006		
92650188028	MCD-DGWC-21	EPA 9320	567006		
92650188029	MCD-AP234-EB-5	EPA 9320	567006		
92650188030	MCD-AP234-FB-5	EPA 9320	567006		
92650188031	MCD-234-FD-6	EPA 9320	567006		
92650188001	MCD-DGWC-42	Total Radium Calculation	568700		
92650188002	MCD-DGWC-13	Total Radium Calculation	568700		
92650188003	MCD-DGWC-14	Total Radium Calculation	568700		
92650188004	MCD-AP234-FD-4	Total Radium Calculation	568700		
92650188005	MCD-DGWC-10	Total Radium Calculation	570512		
92650188006	MCD-DGWC-15	Total Radium Calculation	570512		
92650188007	MCD-DGWC-47	Total Radium Calculation	570512		
92650188008	MCD-DGWC-4	Total Radium Calculation	570512		
92650188009	MCD-DGWC-48	Total Radium Calculation	570512		
92650188010	MCD-AP234-EB-3	Total Radium Calculation	570512		
92650188011	MCD-AP234-EB-2	Total Radium Calculation	570512		
92650188012	MCD-DGWC-9	Total Radium Calculation	570512		
92650188013	MCD-AP234-FD-2	Total Radium Calculation	570512		
92650186012	MCD-AP234-FB-3	Total Radium Calculation	570492		
92650188014	MCD-DGWC-2	Total Radium Calculation	571445		
92650188015	MCD-DGWC-11	Total Radium Calculation	571445		
92650188016	MCD-DGWC-12	Total Radium Calculation	571445		
92650188017	MCD-DGWC-17	Total Radium Calculation	571445		
92650188018	MCD-DGWC-19	Total Radium Calculation	571445		
92650188019	MCD-DGWC-22	Total Radium Calculation	571445		
92650188020	MCD-DGWC-23	Total Radium Calculation	571445		
92650188021	MCD-AP234-EB-4	Total Radium Calculation	571445		
92650188022	MCD-234-FD-3	Total Radium Calculation	571445		
92650188023	MCD-234-FD-5	Total Radium Calculation	571445		
92650188024	MCD-AP234-FB-4	Total Radium Calculation	571445		
92650188025	MCD-DGWC-5	Total Radium Calculation	575358		

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McD AP 2-3/4 Detect RADS

Pace Project No.: 92650188

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92650188026	MCD-DGWC-8	Total Radium Calculation	575358		
92650188027	MCD-DGWC-20	Total Radium Calculation	575358		
92650188028	MCD-DGWC-21	Total Radium Calculation	575358		
92650188029	MCD-AP234-EB-5	Total Radium Calculation	575358		
92650188030	MCD-AP234-FB-5	Total Radium Calculation	575358		
92650188031	MCD-234-FD-6	Total Radium Calculation	575358		

### REPORT OF LABORATORY ANALYSIS

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DC#\_Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt  
 Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Sample Condition  
Upon Receipt

Client Name: GA Power

Project #: **WO# : 92650188**



Courier:  Commercial  Fed Ex  Pace  UPS  USPS  Other:  Client

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 2/2/23  
ent

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: 3.1 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): 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 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: \_\_\_\_\_



DC#\_Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

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

Project #

WO#: 92650188

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

PM: BV

Due Date: 02/23/23

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

CLIENT: GA-GA Power

\*\*\*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 2N Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2SO3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KPTU-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG6U-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																													
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.



# CHAIN OF CUSTODY / Analytical Request Document

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

<b>Section A</b> Required Client Information:	<b>Section B</b> Required Project Information:	<b>Section C</b> Invoice Information:	Page 1 of 1
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**Required Client Information:**  
 Company: Georgia Power / Coal Combustion Residuals  
 Address: 2480 Manner Road  
 Atlanta, GA 30339  
 Email: jlucocker@southemco.com  
 Phone: (470) 820-8178  
 Requested Due Date: 10 Day TAT

**Required Project Information:**  
 Report To: Lauren Carter  
 Copy To: Golder  
 Project Name: Plant MOD AP 2-34 Davidson Hill Network  
 Project #: DL15854922

**Invoice Information:**  
 Attention: esefinco@southemco.com  
 Company Name: Southemco  
 Address:  
 Page Order:  
 Price Project Manager: Nicole D'Olio  
 Price Profile #:

**Regulatory Agency:**  
 State / Location: CA

ITEM #	MATERIALS One Character per box. (A-Z, 0-9 /, -, ) Sample IDs must be unique	DATE	TIME	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	PRESERVATIVES								Requester Analyte Filtered (Y/N)	TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)		
							MATRIX CODE (see vial codes to left)	# OF CONTAINERS	Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3						Methanol	Other
1	MCD-DGWC-42-WG-20230201	2/1/23	13:20	G	2/1/23	15:16	6	3	3	3											
2	MCD-DGWC-13-WG-20230201	2/1/23	15:16	G	2/1/23	15:35	6	3	3												
3	MCD-DGWC-14-WG-20230201	2/1/23	15:35	G	2/1/23	15:36	6	3	3												
4	MCD-AP234-FD-4-WG-20230201	2/1/23	15:35	G	2/1/23	15:36	6	3	3												
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					
13																					
14																					

Additional Comments: MCD-CR-RASSMT-202351

Requested By / AFFILIATION: N. BAH

DATE: 2-2-23

TIME: 11:36

ACCEPTED BY / AFFILIATION: N. BAH

DATE: 2-2-23

TEMP in C:

Received on Ice (Y/N):

Custody Sealed Cooler (Y/N):

Samples Intact (Y/N):

DATE Signed:

92650188

pH = 5.17, Fe2 = 0.0 mg/L, Fe2 max  
2/1/23 at 13:20 001

pH = 5.64, Fe2 = 0.0 mg/L, Fe2 max  
2/1/23 at 15:23 002

pH = 5.87, Fe2 = 0.0 mg/L, Fe2 max  
2/1/23 at 15:40 003

Fe2 = 0.0 mg/L. 004



DC#\_Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville

Sample Condition Upon Receipt

Client Name: GA Power

Project #: **WO#: 92650188**

PM: BV Due Date: 02/23/23  
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: 2/3/23  
COA

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: 3.8 Correction Factor: 0.0  
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): 3.8

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.
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: \_\_\_\_\_



DC#\_ Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

WO#: 92650188

\*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

Project #

PM: BV

Due Date: 02/23/23

CLIENT: GA-GA Power

\*\*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)	DG9A-40 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)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1		2	1																									
2		2	1																									
3		2	1																									
4		2	1																									
5		2	1																									
6		2	1																									
7		2	1																									
8		2	1																									
9		2	1																									
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.



**Pace**  
ANALYTICAL SERVICES

DC#\_Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

**Laboratory receiving samples:**

Asheville  Eden  Greenwood  Huntersville  Raleigh  Meridianville

Sample Condition Upon Receipt **Client Name:** GA Power **Project #:** **WO# : 92650188**

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

**PM:** BV **Due Date:** 02/23/23  
**CLIENT:** GA-GA Power

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

**Date/Initials Person Examining Contents:** 2/7/23 [Signature]

**Packing Material:**  Bubble Wrap  Bubble Bags  None  Other

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

**Cooler Temp:** 2.1 **Correction Factor:** +0.1 **Temp should be above freezing to 6°C**

**Cooler Temp Corrected (°C):** 2.2  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 type="checkbox"/> Yes <input checked="" 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. <u>B-1070 one BPIN arrived empty.</u>
-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 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 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

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

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

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

\*\*\*Check all unpreserved Nitrates for chlorine

Project #

WO#: 92650188

PM: BV

Due Date: 02/23/23

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP9U-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-)	W6FU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2SO3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1	3	1																										
2	2	1																										
3	2	1																										
4	2	1																										
5	2	1																										
6	2	1																										
7	3	1																										
8	2	1																										
9	2	1																										
10	3	1																										
11	3	1																										
12	2	1																										

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.



DC#\_Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

**WO# : 92650188**

Project #

PM: BV

Due Date: 02/23/23

CLIENT: GA-GA Power

\*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

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)	DG9A-40 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)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG8U-40 mL Amber Unpreserved vials (N/A)		
1		2	1																										
2		3	1																										
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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 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 Heater Road  
 Atlanta, GA 30339  
 Email: laudolent@scgpower.com  
 Phone: (478) 822-8178  
 Requested Date/Dists: 10 DAY TAT

Section B  
Required Project Information:

Report To: Laurent Collier  
 Copy To: Golder  
 Purchase Order #:   
 Project Name: Plant Head AP 2480 Detention  
 Project #: GA166849822

Section C  
Vendor Information:

Vendor: scginc@scgpower.com  
 Address:   
 Project Manager: Benita Yang  
 POC: Paula R.   
 Requesting Agency:   
 State: GA

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

Matrix Code:   
 Sample Type: (S-GRAB C-COMP)  
 Date:   
 Time:   
 Sample Temp at Collection:   
 # of Containers:   
 Unpreserved - Ice:   
 Preservatives: H2SO4, HNO3 + Ice, HCl, NaOH + Zn Acetate, Na2S2O8, Methanol, Other:   
 Analytical Tests: Y/N  
 App IIRV + Mg, Na, K, Fe: N/N  
 Cl, F, SO4: N/N  
 Radioium 226/232: N/N  
 TDS: N/N  
 Alkalinity: N/N  
 Fe Total, Fe 3+ (Fentic calculation): N/N  
 Residual Chlorine (Y/N):   
 965186

ITEM #	CODE	MATRIX CODE (see valid codes to left)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	UNPRESERVED - ICE	PRESERVATIVES	ANALYTICAL TESTS	RESIDUAL CHLORINE (Y/N)	REMARKS
1	MCD-DGWC-2-WG-20230206	WG	2/6/23	9:55		3	3		X X X X X X X X		p1 = 8.17, F&E = 0.0 mg/L, F&E analyzed at 2/6/23 at 14:00
2	MCD-DGWC-11-HHG-20230206	WG	2/6/23	16:31		3	3		X X X X X X X X		p1 = 5.45, F&E = 0.0 mg/L, F&E analyzed at 2/6/23 at 16:30
3	MCD-DGWC-12-WG-20230206	WG	2/6/23	13:46		3	3		X X X X X X X X		p1 = 5.00, F&E = 7.0 mg/L, F&E analyzed at 2/6/23 at 13:50
4	MCD-DGWC-17-WG-20230206	WG	2/6/23	16:59		3	3		X X X X X X X X		p1 = 6.13, F&E = 0.0 mg/L, F&E analyzed at 2/6/23 at 17:05
5	MCD-DGWC-18-WG-20230206	WG	2/6/23	12:50		3	3		X X X X X X X X		p1 = 4.82, F&E = 0.0 mg/L, F&E analyzed at 2/6/23 at 12:55
6	MCD-DGWC-22-WG-20230206	WG	2/6/23	16:16		3	3		X X X X X X X X		p1 = 5.64, F&E = 0.0 mg/L, F&E analyzed at 2/6/23 at 16:15
7	MCD-DGWC-23-WG-20230206	WG	2/6/23	14:10		3	3		X X X X X X X X		p1 = 5.87, F&E = 0.0 mg/L, F&E analyzed at 2/6/23 at 14:15
8	MCD-DGWC-23-HHG-20230206	WG	2/6/23	16:55		3	3		X X X X X X X X		F&E = 7.7 F&E sampled at 14:10, analyzed at 14:15
9	MCD-DGWC-23-EB-4-WG-20230206	WG	2/6/23	16:55		3	3		X X X X X X X X		F&E = 0.0 F&E sampled at 14:20, analyzed at 14:25
10	MCD-234-FD-3-WG-20230206	WG	2/6/23			3	3		X X X X X X X X		
11	MCD-234-FD-5-WG-20230206	WG	2/6/23			3	3		X X X X X X X X		
12	MCD-AP234-FB-4-WG-20230206	WG	2/6/23	9:50		3	3		X X X X X X X X		

014  
 015  
 016  
 017  
 019  
 020  
 021  
 022  
 023  
 024

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

Task Code = MCD-COR-ASSMNT-2023ST  
 Date: 2/6/23  
 Time: 10:15  
 Initials:   
 Signature:   
 Date Signed:   
 834 2/6/23



DC#\_ Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Merit

Sample Condition Upon Receipt

Client Name:

GA Power

Project #:

WO#: 92650188

PM: BV

Due Date: 02/23/23

CLIENT: GA-GA Power

Courier:  Commercial  Fed Ex  Pace  UPS  USPS  Other:  Client

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 2/18/23 CM

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:

2.4

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):

2.4

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 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

WO#: 92650188

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

Project #

PM: BV

Due Date: 02/23/23

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

\*\*\*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-)	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-)	AG3S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9H-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)			
1		2	1																											
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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: 2400 Minor Road  
 Atlanta, GA 30339  
 Email: [bauscker@scouthunterco.com](mailto:bauscker@scouthunterco.com)  
 Phone: (478) 620-6178  
 Requested Date: 10 Day 1A7

### Section B

**Required Project Information:**  
 Report To: Laurin Collier  
 Copy To: Golder  
 Project Name: Plant MCD AP 2.3M Deleation  
 WWS Network  
 Project #: 6116949822

### Section C

**Invoice Information:**  
 Address: [achhutz@scouthunterco.com](mailto:achhutz@scouthunterco.com)  
 Company Name  
 Project Manager: Bonnie Yang  
 Price Profile #

1 of 1

Regulatory Agency

State / 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

# OF CONTAINERS

Preservatives  
 Unpreserved - Ice  
 H2SO4  
 HNO3 + Ice  
 HCl  
 NaOH + Zn Acetate  
 Na2S2O3  
 Methanol  
 Other

Analyses Test Y/N  
 App III/IV + Mg, Na, K, Fe  
 Cl, F, SO4  
 Radium 8513/8320  
 TDS  
 Alkalinity  
 Fe Total, Fe 3+ (Feric calculation)

Residual Chlorine (Y/N)

9265666

ITEM #	MATRIX CODE	SAMPLE TYPE	DATE	TIME	# OF CONTAINERS	Preservatives	Analyses Test	Residual Chlorine (Y/N)
1	MCD-DGWC-S-WG-20230207	G	2/7/23	10:00	6	3	X	X
2	MCD-DGWC-B-WG-20230207	G	2/7/23	12:00	6	3	X	X
3	MCD-DGWC-20-WG-20230207	G	2/7/23	10:38	6	3	X	X
4	MCD-DGWC-21-WG-20230207	G	2/7/23	14:56	8	3	X	X
5	MCD-AP234-EB-S-WG-20230207	G	2/7/23	9:00	6	3	X	X
6	MCD-AP234-FB-S-WG-20230207	G	2/7/23	10:30	6	3	X	X
7	MCD-234-FD-S-WG-20230207	G	2/7/23	-	6	3	X	X
8								
9								
10								
11								
12								
13								
14								

**ADDITIONAL COMMENTS**  
 REACQUIRED BY / APPLICATION: WSR  
 DATE: 2/12/23 1358  
 ACCEPTED BY / APPLICATION: Charles Hunt  
 DATE: 2/12/23 1358

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

DATE Signed: \_\_\_\_\_

# Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226  
Analyst: RMS  
Date: 2/17/2023  
Worklist: 71462  
Matrix: DW

Method Blank Assessment	
MB Sample ID	2753256
MB concentration:	0.041
MB Counting Uncertainty:	0.099
MB MDC:	0.240
MB Numerical Performance Indicator:	0.82
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment		LCS(Y or N)?	Y
Count Date:		LCS71462	2/20/2023
Spike I.D.:		19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):		24.019	24.019
Volume Used (mL):		0.10	0.10
Aliquot Volume (L, g, F):		0.505	0.513
Target Conc. (pCi/L, g, F):		4.756	4.879
Uncertainty (Calculated):		0.057	0.056
Result (pCi/L, g, F):		5.253	5.077
LCS/LCSD Counting Uncertainty (pCi/L, g, F):		0.656	0.663
Numerical Performance Indicator:		1.48	1.17
Percent Recovery:		110.43%	108.51%
Status vs Numerical Indicator:		N/A	N/A
Status vs Recovery:		Pass	Pass
Upper % Recovery Limits:		125%	125%
Lower % Recovery Limits:		75%	75%

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): MS/MSD Upper % Recovery Limits: MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		92650188025	92650188025DUP
Sample I.D.:	LCS71462	92650188025	92650188025DUP
Duplicate Sample I.D.:	LCS71462	0.540	0.540
Sample Result (pCi/L, g, F):	5.253	0.237	0.237
Sample Result Counting Uncertainty (pCi/L, g, F):	0.656	0.701	0.701
Sample Duplicate Result (pCi/L, g, F):	5.077	0.243	0.243
Sample Duplicate Counting Uncertainty (pCi/L, g, F):	0.663	See Below ##	See Below ##
Are sample and/or duplicate results below RL?	NQ	26.05%	26.05%
Duplicate Numerical Performance Indicator:	0.369	N/A	N/A
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	1.75%	Fail***	Fail***
Duplicate Status vs Numerical Indicator:	N/A	25%	25%
Duplicate Status vs RPD:	Pass		
% RPD Limit:	25%		

Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample I.D. Sample MS I.D. Sample MSD I.D. Matrix Spike Result Sample Matrix Spike Result Sample 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:

## 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: *NA*

*02/20/23*

*2/20/23*

# Quality Control Sample Performance Assessment



**Analyst Must Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-228  
Analyst: JJS1  
Date: 2/16/2023  
Worklist: 71463  
Matrix: WT

Method Blank Assessment	
MB Sample ID	2753261
MB concentration:	0.472
M/B 2 Sigma CSU:	0.269
MB MDC:	0.470
MB Numerical Performance Indicator:	3.44
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	See Comment*

Laboratory Control Sample Assessment	
Count Date:	LCSD (Y or N)?
2/20/2023	LCSD71463
22-040	2/20/2023
33.487	22-040
0.10	33.487
0.811	0.10
4.127	0.801
4.114	4.180
0.202	0.205
4.114	3.428
0.925	0.800
-0.03	-1.78
99.67%	82.01%
N/A	N/A
Pass	Pass
135%	135%
60%	60%

Duplicate Sample Assessment	
Sample I.D.:	LCSD71463
Duplicate Sample I.D.:	LCSD71463
Sample Result (pCi/L, g, F):	4.114
Sample Duplicate Result (pCi/L, g, F):	0.925
Sample Duplicate Result (pCi/L, g, F):	3.428
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.800
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	1.098
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	19.44%
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.

*JJS/20/23*

Sample Matrix Spike Control Assessment	
Sample Collection Date:	MS/MSD 1
Sample I.D.:	MS/MSD 2
Sample MS I.D.:	
Sample MSD 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:	
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:	
Sample Result 2 Sigma CSU (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Sample Matrix Spike Duplicate 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:	



March 20, 2023

Andrea McClure  
WSP/Golder  
5170 Peachtree Road  
Building 100, Suite 300  
Atlanta, GA 30341

RE: Project: Plant McD AP-2-3/4 Assessm RAD  
Pace Project No.: 92650189

Dear Andrea McClure:

Enclosed are the analytical results for sample(s) received by the laboratory between February 02, 2023 and February 08, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Greensburg

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

Sincerely,



Bonnie Vang  
bonnie.vang@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR  
Stephen Benda, Southern Company  
Noelia Gangi, Georgia Power  
Daniela Herrera, Golder  
Ben Hodges, Georgia Power-CCR  
Kristen Jurinko  
Laura Midkiff, Georgia Power  
J. Shelby Mobley, Southern Company  
Charles Norton, Southern Company  
Dawn Prell, WSP USA E&I Inc\_Atlanta  
Michael Smilley, Georgia Power

Yong Cheng Soo, WSP/Golder  
Tina Sullivan, ERM



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Plant McD AP-2-3/4 Assessm RAD  
Pace Project No.: 92650189

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### **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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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Plant McD AP-2-3/4 Assessm RAD

Pace Project No.: 92650189

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92650189001	MCD-B-92	Water	01/31/23 12:20	02/02/23 11:36
92650189002	MCD-B-93	Water	01/31/23 14:25	02/02/23 11:36
92650189003	MCD-B-98	Water	01/31/23 16:30	02/02/23 11:36
92650189004	MCD-B-97	Water	02/01/23 11:20	02/02/23 11:36
92650189005	MCD-B-63	Water	02/02/23 13:20	02/03/23 16:23
92650189006	MCD-B-102D	Water	02/02/23 12:05	02/03/23 16:23
92650189007	MCD-B-83	Water	02/03/23 12:15	02/03/23 16:23
92650189008	MCD-B-120D	Water	02/03/23 11:00	02/03/23 16:23
92650189009	MCD-B-101D	Water	02/03/23 13:10	02/03/23 16:23
92650189010	MCD-B-104D	Water	02/03/23 13:10	02/03/23 16:23
92650189011	MCD-B-77	Water	02/06/23 13:55	02/07/23 11:10
92650189012	MCD-B-107D	Water	02/06/23 14:15	02/07/23 11:10
92650189013	MCD-B-109D	Water	02/06/23 11:50	02/07/23 11:10
92650189014	MCD-B-115D	Water	02/06/23 16:25	02/07/23 11:10
92650189015	MCD-B-122D	Water	02/06/23 10:50	02/07/23 11:10
92650189016	MCD-B-56	Water	02/07/23 16:43	02/08/23 13:58
92650189017	MCD-B-66	Water	02/07/23 14:25	02/08/23 13:58
92650189018	MCD-B-82	Water	02/07/23 11:38	02/08/23 13:58
92650189019	MCD-B-88	Water	02/07/23 14:35	02/08/23 13:58
92650189020	MCD-B-106D	Water	02/07/23 15:45	02/08/23 13:58
92650189021	MCD-B-108D	Water	02/07/23 13:03	02/08/23 13:58
92650189022	MCD-B-111D	Water	02/07/23 11:40	02/08/23 13:58
92650189023	MCD-AP234-EB-6	Water	02/07/23 09:00	02/08/23 13:58
92650189024	MCD-AP234-FB-6	Water	02/07/23 12:35	02/08/23 13:58

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Plant McD AP-2-3/4 Assessm RAD  
Pace Project No.: 92650189

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92650189001	MCD-B-92	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92650189002	MCD-B-93	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92650189003	MCD-B-98	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92650189004	MCD-B-97	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92650189005	MCD-B-63	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92650189006	MCD-B-102D	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92650189007	MCD-B-83	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92650189008	MCD-B-120D	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92650189009	MCD-B-101D	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92650189010	MCD-B-104D	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92650189011	MCD-B-77	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92650189012	MCD-B-107D	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92650189013	MCD-B-109D	EPA 9315	RMS	1	PASI-PA

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Plant McD AP-2-3/4 Assessm RAD  
Pace Project No.: 92650189

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92650189014	MCD-B-115D	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
92650189015	MCD-B-122D	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
92650189016	MCD-B-56	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
92650189017	MCD-B-66	EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
92650189018	MCD-B-82	EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
92650189019	MCD-B-88	EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
92650189020	MCD-B-106D	EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
92650189021	MCD-B-108D	EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
92650189022	MCD-B-111D	EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
92650189023	MCD-AP234-EB-6	EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
92650189024	MCD-AP234-FB-6	EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

### REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Plant McD AP-2-3/4 Assessm RAD

Pace Project No.: 92650189

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**Date:** March 20, 2023

Georgia Power EQulS Database Manager requested Pace Project Manager remove the sample matrix and date from the Sample IDs. This update ensures sample nomenclature is followed on final PDF and EDD for successful upload of laboratory data into the Georgia Power EQulS database.

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Plant McD AP-2-3/4 Assessm RAD

Pace Project No.: 92650189

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**Method:** EPA 9315

**Description:** 9315 Total Radium

**Client:** Georgia Power

**Date:** March 20, 2023

**General Information:**

24 samples were analyzed for EPA 9315 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Plant McD AP-2-3/4 Assessm RAD

Pace Project No.: 92650189

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**Method:** EPA 9320

**Description:** 9320 Radium 228

**Client:** Georgia Power

**Date:** March 20, 2023

**General Information:**

24 samples were analyzed for EPA 9320 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Plant McD AP-2-3/4 Assessm RAD

Pace Project No.: 92650189

---

**Method:** Total Radium Calculation

**Description:** Total Radium 228+226

**Client:** Georgia Power

**Date:** March 20, 2023

**General Information:**

24 samples were analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-2-3/4 Assessm RAD

Pace Project No.: 92650189

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: MCD-B-92</b> <b>Lab ID: 92650189001</b> Collected: 01/31/23 12:20      Received: 02/02/23 11:36      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.501 ± 0.188 (0.178)</b> <b>C:95% T:NA</b>	pCi/L	02/23/23 12:08	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>1.54 ± 0.554 (0.830)</b> <b>C:71% T:95%</b>	pCi/L	02/21/23 15:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>2.04 ± 0.742 (1.01)</b>	pCi/L	02/24/23 16:16	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-2-3/4 Assessm RAD

Pace Project No.: 92650189

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: MCD-B-93</b> <b>Lab ID: 92650189002</b> Collected: 01/31/23 14:25      Received: 02/02/23 11:36      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.227 ± 0.124 (0.147)</b> <b>C:97% T:NA</b>	pCi/L	02/23/23 12:08	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>1.45 ± 0.576 (0.921)</b> <b>C:72% T:87%</b>	pCi/L	02/21/23 15:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.68 ± 0.700 (1.07)</b>	pCi/L	02/24/23 16:16	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-2-3/4 Assessm RAD

Pace Project No.: 92650189

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: MCD-B-98</b> <b>Lab ID: 92650189003</b> Collected: 01/31/23 16:30      Received: 02/02/23 11:36      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.286 ± 0.142 (0.179)</b> <b>C:96% T:NA</b>	pCi/L	02/23/23 12:10	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.587 ± 0.463 (0.933)</b> <b>C:76% T:96%</b>	pCi/L	02/21/23 15:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.873 ± 0.605 (1.11)</b>	pCi/L	02/24/23 16:16	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-2-3/4 Assessm RAD

Pace Project No.: 92650189

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: MCD-B-97</b> <b>Lab ID: 92650189004</b> Collected: 02/01/23 11:20      Received: 02/02/23 11:36      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.657 ± 0.223 (0.204)</b> <b>C:94% T:NA</b>	pCi/L	02/23/23 12:10	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.668 ± 0.412 (0.773)</b> <b>C:70% T:97%</b>	pCi/L	02/21/23 15:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.33 ± 0.635 (0.977)</b>	pCi/L	02/24/23 16:16	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-2-3/4 Assessm RAD

Pace Project No.: 92650189

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: MCD-B-63</b> <b>Lab ID: 92650189005</b> Collected: 02/02/23 13:20      Received: 02/03/23 16:23      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.544 ± 0.199 (0.204)</b> <b>C:98% T:NA</b>	pCi/L	02/28/23 08:40	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.464 ± 0.325 (0.618)</b> <b>C:77% T:93%</b>	pCi/L	02/21/23 15:10	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.01 ± 0.524 (0.822)</b>	pCi/L	02/28/23 15:13	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-2-3/4 Assessm RAD

Pace Project No.: 92650189

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: MCD-B-102D</b> <b>Lab ID: 92650189006</b> Collected: 02/02/23 12:05      Received: 02/03/23 16:23      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.190 ± 0.132 (0.215)</b> <b>C:96% T:NA</b>	pCi/L	02/23/23 12:07	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.486 ± 0.357 (0.686)</b> <b>C:72% T:91%</b>	pCi/L	02/21/23 15:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.676 ± 0.489 (0.901)</b>	pCi/L	02/24/23 16:16	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-2-3/4 Assessm RAD

Pace Project No.: 92650189

**Sample: MCD-B-83**      **Lab ID: 92650189007**      Collected: 02/03/23 12:15      Received: 02/03/23 16:23      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	<b>0.0802 ± 0.0945 (0.188)</b> <b>C:90% T:NA</b>	pCi/L	02/23/23 12:08	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.199 ± 0.370 (0.813)</b> <b>C:71% T:91%</b>	pCi/L	02/21/23 15:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.279 ± 0.465 (1.00)</b>	pCi/L	02/24/23 16:16	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-2-3/4 Assessm RAD

Pace Project No.: 92650189

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: MCD-B-120D</b> <b>Lab ID: 92650189008</b> Collected: 02/03/23 11:00      Received: 02/03/23 16:23      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.553 ± 0.197 (0.165)</b> <b>C:95% T:NA</b>	pCi/L	02/23/23 14:41	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>1.26 ± 0.524 (0.833)</b> <b>C:66% T:91%</b>	pCi/L	02/21/23 15:10	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.81 ± 0.721 (0.998)</b>	pCi/L	02/24/23 16:16	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-2-3/4 Assessm RAD

Pace Project No.: 92650189

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: MCD-B-101D</b>						
<b>Lab ID: 92650189009</b>						
Collected: 02/03/23 13:10						
Received: 02/03/23 16:23						
Matrix: Water						
PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.272 ± 0.144 (0.190)</b> <b>C:89% T:NA</b>	pCi/L	02/23/23 14:41	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.154 ± 0.316 (0.699)</b> <b>C:72% T:98%</b>	pCi/L	02/21/23 15:11	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.426 ± 0.460 (0.889)</b>	pCi/L	02/24/23 16:16	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-2-3/4 Assessm RAD

Pace Project No.: 92650189

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: MCD-B-104D</b> <b>Lab ID: 92650189010</b> Collected: 02/03/23 13:10      Received: 02/03/23 16:23      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>3.26 ± 0.633 (0.188)</b> <b>C:94% T:NA</b>	pCi/L	02/23/23 14:41	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>11.5 ± 2.32 (1.15)</b> <b>C:64% T:87%</b>	pCi/L	02/21/23 15:11	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>14.8 ± 2.95 (1.34)</b>	pCi/L	02/24/23 16:16	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-2-3/4 Assessm RAD

Pace Project No.: 92650189

**Sample: MCD-B-77**      **Lab ID: 92650189011**      Collected: 02/06/23 13:55      Received: 02/07/23 11:10      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	<b>0.120 ± 0.196 (0.439)</b> <b>C:64% T:NA</b>	pCi/L	02/28/23 21:18	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.627 ± 0.386 (0.705)</b> <b>C:84% T:77%</b>	pCi/L	02/28/23 13:30	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.747 ± 0.582 (1.14)</b>	pCi/L	03/03/23 15:28	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-2-3/4 Assessm RAD

Pace Project No.: 92650189

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: MCD-B-107D</b> <b>Lab ID: 92650189012</b> Collected: 02/06/23 14:15      Received: 02/07/23 11:10      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.267 ± 0.256 (0.475)</b> <b>C:80% T:NA</b>	pCi/L	02/28/23 21:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.192 ± 0.312 (0.678)</b> <b>C:78% T:84%</b>	pCi/L	02/28/23 13:30	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.459 ± 0.568 (1.15)</b>	pCi/L	03/03/23 15:28	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-2-3/4 Assessm RAD

Pace Project No.: 92650189

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: MCD-B-109D</b> <b>Lab ID: 92650189013</b> Collected: 02/06/23 11:50      Received: 02/07/23 11:10      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>6.58 ± 1.14 (0.221)</b> <b>C:92% T:NA</b>	pCi/L	02/28/23 21:21	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>11.1 ± 2.24 (0.893)</b> <b>C:78% T:75%</b>	pCi/L	02/28/23 13:30	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>17.7 ± 3.38 (1.11)</b>	pCi/L	03/03/23 15:28	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-2-3/4 Assessm RAD

Pace Project No.: 92650189

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: MCD-B-115D</b> <b>Lab ID: 92650189014</b> Collected: 02/06/23 16:25      Received: 02/07/23 11:10      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>3.25 ± 0.662 (0.204)</b> <b>C:97% T:NA</b>	pCi/L	02/28/23 19:14	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>5.35 ± 1.20 (0.814)</b> <b>C:81% T:81%</b>	pCi/L	02/28/23 13:30	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>8.60 ± 1.86 (1.02)</b>	pCi/L	03/03/23 15:28	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-2-3/4 Assessm RAD

Pace Project No.: 92650189

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: MCD-B-122D</b> <b>Lab ID: 92650189015</b> Collected: 02/06/23 10:50      Received: 02/07/23 11:10      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>3.41 ± 0.713 (0.256)</b> <b>C:90% T:NA</b>	pCi/L	02/28/23 19:14	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>4.81 ± 1.11 (0.822)</b> <b>C:82% T:80%</b>	pCi/L	02/28/23 13:31	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>8.22 ± 1.82 (1.08)</b>	pCi/L	03/03/23 15:28	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-2-3/4 Assessm RAD

Pace Project No.: 92650189

**Sample: MCD-B-56**      **Lab ID: 92650189016**      Collected: 02/07/23 16:43      Received: 02/08/23 13:58      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	<b>0.0989 ± 0.143 (0.306)</b> <b>C:80% T:NA</b>	pCi/L	02/20/23 08:58	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.908 ± 0.437 (0.757)</b> <b>C:87% T:87%</b>	pCi/L	02/20/23 15:18	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.01 ± 0.580 (1.06)</b>	pCi/L	02/21/23 16:01	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-2-3/4 Assessm RAD

Pace Project No.: 92650189

**Sample: MCD-B-66**      **Lab ID: 92650189017**      Collected: 02/07/23 14:25      Received: 02/08/23 13:58      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	<b>0.143 ± 0.161 (0.325)</b> <b>C:90% T:NA</b>	pCi/L	02/20/23 08:58	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.621 ± 0.344 (0.617)</b> <b>C:86% T:97%</b>	pCi/L	02/20/23 15:18	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.764 ± 0.505 (0.942)</b>	pCi/L	02/21/23 16:01	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-2-3/4 Assessm RAD

Pace Project No.: 92650189

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: MCD-B-82</b> <b>Lab ID: 92650189018</b> Collected: 02/07/23 11:38      Received: 02/08/23 13:58      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.259 ± 0.170 (0.249)</b> <b>C:90% T:NA</b>	pCi/L	02/20/23 08:59	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.517 ± 0.378 (0.725)</b> <b>C:66% T:90%</b>	pCi/L	02/20/23 15:18	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.776 ± 0.548 (0.974)</b>	pCi/L	02/21/23 16:01	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-2-3/4 Assessm RAD

Pace Project No.: 92650189

**Sample: MCD-B-88**      **Lab ID: 92650189019**      Collected: 02/07/23 14:35      Received: 02/08/23 13:58      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	<b>0.589 ± 0.258 (0.300)</b> <b>C:94% T:NA</b>	pCi/L	02/20/23 09:00	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>1.18 ± 0.445 (0.660)</b> <b>C:88% T:90%</b>	pCi/L	02/20/23 15:18	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.77 ± 0.703 (0.960)</b>	pCi/L	02/21/23 16:01	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-2-3/4 Assessm RAD

Pace Project No.: 92650189

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: MCD-B-106D</b> <b>Lab ID: 92650189020</b> Collected: 02/07/23 15:45      Received: 02/08/23 13:58      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.159 ± 0.156 (0.294)</b> <b>C:91% T:NA</b>	pCi/L	02/20/23 09:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.483 ± 0.322 (0.610)</b> <b>C:91% T:88%</b>	pCi/L	02/20/23 15:18	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.642 ± 0.478 (0.904)</b>	pCi/L	02/21/23 16:01	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-2-3/4 Assessm RAD

Pace Project No.: 92650189

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: MCD-B-108D</b>						
<b>Lab ID: 92650189021</b>						
Collected: 02/07/23 13:03						
Received: 02/08/23 13:58						
Matrix: Water						
PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.272 ± 0.190 (0.284)</b> <b>C:90% T:NA</b>	pCi/L	03/02/23 08:31	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.703 ± 0.321 (0.512)</b> <b>C:81% T:88%</b>	pCi/L	02/28/23 12:41	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.975 ± 0.511 (0.796)</b>	pCi/L	03/02/23 15:06	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-2-3/4 Assessm RAD

Pace Project No.: 92650189

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: MCD-B-111D</b> <b>Lab ID: 92650189022</b> Collected: 02/07/23 11:40      Received: 02/08/23 13:58      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>2.53 ± 0.607 (0.283)</b> <b>C:93% T:NA</b>	pCi/L	03/02/23 08:31	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>3.71 ± 0.829 (0.466)</b> <b>C:86% T:89%</b>	pCi/L	02/28/23 12:41	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>6.24 ± 1.44 (0.749)</b>	pCi/L	03/02/23 15:06	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-2-3/4 Assessm RAD

Pace Project No.: 92650189

**Sample: MCD-AP234-EB-6**      **Lab ID: 92650189023**      Collected: 02/07/23 09:00      Received: 02/08/23 13:58      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	<b>-0.0454 ± 0.0733 (0.288)</b> <b>C:91% T:NA</b>	pCi/L	03/02/23 08:31	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.387 ± 0.336 (0.673)</b> <b>C:73% T:88%</b>	pCi/L	02/28/23 12:41	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.387 ± 0.409 (0.961)</b>	pCi/L	03/02/23 15:06	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-2-3/4 Assessm RAD

Pace Project No.: 92650189

**Sample: MCD-AP234-FB-6**      **Lab ID: 92650189024**      Collected: 02/07/23 12:35      Received: 02/08/23 13:58      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	<b>0.307 ± 0.195 (0.273)</b> <b>C:96% T:NA</b>	pCi/L	03/02/23 08:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.746 ± 0.357 (0.598)</b> <b>C:80% T:88%</b>	pCi/L	02/28/23 12:41	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.05 ± 0.552 (0.871)</b>	pCi/L	03/02/23 15:06	7440-14-4	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD AP-2-3/4 Assessm RAD

Pace Project No.: 92650189

QC Batch: 565962

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92650189001, 92650189002, 92650189003, 92650189004, 92650189006, 92650189007, 92650189008, 92650189009, 92650189010

METHOD BLANK: 2748582

Matrix: Water

Associated Lab Samples: 92650189001, 92650189002, 92650189003, 92650189004, 92650189006, 92650189007, 92650189008, 92650189009, 92650189010

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0953 ± 0.0922 (0.167) C:96% T:NA	pCi/L	02/23/23 12:08	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD AP-2-3/4 Assessm RAD

Pace Project No.: 92650189

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QC Batch:	565963	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92650189001, 92650189002, 92650189003, 92650189004, 92650189005, 92650189006, 92650189007, 92650189008, 92650189009, 92650189010

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METHOD BLANK: 2748585 Matrix: Water

Associated Lab Samples: 92650189001, 92650189002, 92650189003, 92650189004, 92650189005, 92650189006, 92650189007, 92650189008, 92650189009, 92650189010

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.446 ± 0.307 (0.579) C:73% T:96%	pCi/L	02/21/23 15:11	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD AP-2-3/4 Assessm RAD

Pace Project No.: 92650189

QC Batch: 567003

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92650189016, 92650189017, 92650189018, 92650189019, 92650189020

METHOD BLANK: 2753256

Matrix: Water

Associated Lab Samples: 92650189016, 92650189017, 92650189018, 92650189019, 92650189020

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0414 ± 0.0994 (0.240) C:92% T:NA	pCi/L	02/20/23 10:18	

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### REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.

### QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD AP-2-3/4 Assessm RAD

Pace Project No.: 92650189

QC Batch: 566525

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92650189011, 92650189012, 92650189013, 92650189014, 92650189015

METHOD BLANK: 2751474

Matrix: Water

Associated Lab Samples: 92650189011, 92650189012, 92650189013, 92650189014, 92650189015

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0900 ± 0.112 (0.227) C:97% T:NA	pCi/L	02/28/23 21:17	

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.

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD AP-2-3/4 Assessm RAD

Pace Project No.: 92650189

QC Batch: 567656

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92650189005

METHOD BLANK: 2757285

Matrix: Water

Associated Lab Samples: 92650189005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0101 ± 0.0597 (0.161) C:101% T:NA	pCi/L	02/28/23 08:40	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD AP-2-3/4 Assessm RAD

Pace Project No.: 92650189

QC Batch: 566526

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92650189011, 92650189012, 92650189013, 92650189014, 92650189015

METHOD BLANK: 2751475

Matrix: Water

Associated Lab Samples: 92650189011, 92650189012, 92650189013, 92650189014, 92650189015

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.0292 ± 0.364 (0.848) C:73% T:77%	pCi/L	02/28/23 13:30	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD AP-2-3/4 Assessm RAD

Pace Project No.: 92650189

QC Batch: 567031

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92650189021, 92650189022, 92650189023, 92650189024

METHOD BLANK: 2753389

Matrix: Water

Associated Lab Samples: 92650189021, 92650189022, 92650189023, 92650189024

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0316 ± 0.106 (0.272) C:91% T:NA	pCi/L	03/02/23 10:00	

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: Plant McD AP-2-3/4 Assessm RAD

Pace Project No.: 92650189

QC Batch: 567032

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92650189021, 92650189022, 92650189023, 92650189024

METHOD BLANK: 2753395

Matrix: Water

Associated Lab Samples: 92650189021, 92650189022, 92650189023, 92650189024

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.623 ± 0.341 (0.611) C:84% T:91%	pCi/L	02/28/23 12:40	

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

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD AP-2-3/4 Assessm RAD

Pace Project No.: 92650189

QC Batch: 567006

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92650189016, 92650189017, 92650189018, 92650189019, 92650189020

METHOD BLANK: 2753261

Matrix: Water

Associated Lab Samples: 92650189016, 92650189017, 92650189018, 92650189019, 92650189020

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.472 ± 0.269 (0.470) C:89% T:96%	pCi/L	02/20/23 15:18	

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.

### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: Plant McD AP-2-3/4 Assessm RAD  
Pace Project No.: 92650189

---

### DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McD AP-2-3/4 Assessm RAD

Pace Project No.: 92650189

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92650189001	MCD-B-92	EPA 9315	565962		
92650189002	MCD-B-93	EPA 9315	565962		
92650189003	MCD-B-98	EPA 9315	565962		
92650189004	MCD-B-97	EPA 9315	565962		
92650189005	MCD-B-63	EPA 9315	567656		
92650189006	MCD-B-102D	EPA 9315	565962		
92650189007	MCD-B-83	EPA 9315	565962		
92650189008	MCD-B-120D	EPA 9315	565962		
92650189009	MCD-B-101D	EPA 9315	565962		
92650189010	MCD-B-104D	EPA 9315	565962		
92650189011	MCD-B-77	EPA 9315	566525		
92650189012	MCD-B-107D	EPA 9315	566525		
92650189013	MCD-B-109D	EPA 9315	566525		
92650189014	MCD-B-115D	EPA 9315	566525		
92650189015	MCD-B-122D	EPA 9315	566525		
92650189016	MCD-B-56	EPA 9315	567003		
92650189017	MCD-B-66	EPA 9315	567003		
92650189018	MCD-B-82	EPA 9315	567003		
92650189019	MCD-B-88	EPA 9315	567003		
92650189020	MCD-B-106D	EPA 9315	567003		
92650189021	MCD-B-108D	EPA 9315	567031		
92650189022	MCD-B-111D	EPA 9315	567031		
92650189023	MCD-AP234-EB-6	EPA 9315	567031		
92650189024	MCD-AP234-FB-6	EPA 9315	567031		
92650189001	MCD-B-92	EPA 9320	565963		
92650189002	MCD-B-93	EPA 9320	565963		
92650189003	MCD-B-98	EPA 9320	565963		
92650189004	MCD-B-97	EPA 9320	565963		
92650189005	MCD-B-63	EPA 9320	565963		
92650189006	MCD-B-102D	EPA 9320	565963		
92650189007	MCD-B-83	EPA 9320	565963		
92650189008	MCD-B-120D	EPA 9320	565963		
92650189009	MCD-B-101D	EPA 9320	565963		
92650189010	MCD-B-104D	EPA 9320	565963		
92650189011	MCD-B-77	EPA 9320	566526		
92650189012	MCD-B-107D	EPA 9320	566526		
92650189013	MCD-B-109D	EPA 9320	566526		
92650189014	MCD-B-115D	EPA 9320	566526		
92650189015	MCD-B-122D	EPA 9320	566526		
92650189016	MCD-B-56	EPA 9320	567006		
92650189017	MCD-B-66	EPA 9320	567006		
92650189018	MCD-B-82	EPA 9320	567006		
92650189019	MCD-B-88	EPA 9320	567006		
92650189020	MCD-B-106D	EPA 9320	567006		

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McD AP-2-3/4 Assessm RAD

Pace Project No.: 92650189

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92650189021	MCD-B-108D	EPA 9320	567032		
92650189022	MCD-B-111D	EPA 9320	567032		
92650189023	MCD-AP234-EB-6	EPA 9320	567032		
92650189024	MCD-AP234-FB-6	EPA 9320	567032		
92650189001	MCD-B-92	Total Radium Calculation	569799		
92650189002	MCD-B-93	Total Radium Calculation	569799		
92650189003	MCD-B-98	Total Radium Calculation	569799		
92650189004	MCD-B-97	Total Radium Calculation	569799		
92650189005	MCD-B-63	Total Radium Calculation	570494		
92650189006	MCD-B-102D	Total Radium Calculation	569799		
92650189007	MCD-B-83	Total Radium Calculation	569799		
92650189008	MCD-B-120D	Total Radium Calculation	569799		
92650189009	MCD-B-101D	Total Radium Calculation	569799		
92650189010	MCD-B-104D	Total Radium Calculation	569799		
92650189011	MCD-B-77	Total Radium Calculation	571445		
92650189012	MCD-B-107D	Total Radium Calculation	571445		
92650189013	MCD-B-109D	Total Radium Calculation	571445		
92650189014	MCD-B-115D	Total Radium Calculation	571445		
92650189015	MCD-B-122D	Total Radium Calculation	571445		
92650189016	MCD-B-56	Total Radium Calculation	568815		
92650189017	MCD-B-66	Total Radium Calculation	568815		
92650189018	MCD-B-82	Total Radium Calculation	568815		
92650189019	MCD-B-88	Total Radium Calculation	568815		
92650189020	MCD-B-106D	Total Radium Calculation	568815		
92650189021	MCD-B-108D	Total Radium Calculation	571130		
92650189022	MCD-B-111D	Total Radium Calculation	571130		
92650189023	MCD-AP234-EB-6	Total Radium Calculation	571130		
92650189024	MCD-AP234-FB-6	Total Radium Calculation	571130		

### REPORT OF LABORATORY ANALYSIS

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DC#\_Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt  
 Effective Date: 11/14/2022

laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Sample Condition Upon Receipt

Client Name: GA Power

Project #: **WO# : 92650189**



Courier:  Commercial  Fed Ex  Pace  UPS  USPS  Other: \_\_\_\_\_  Client

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 2/2/23  
ert

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: 3.1 Correction Factor: Add/Subtract (°C) 40.0

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

Cooler Temp Corrected (°C): 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 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: \_\_\_\_\_



DC#\_Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

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

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

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

\*\*\*Check all unpreserved Nitrates for chlorine

Project #

WO#: 92650189

PM: BV

Due Date: 02/23/23

CLIENT: GA-GA Power

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)	BP4B-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-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	D694-40 mL Amber NH4Cl (N/A)(C-)	D69H-40 mL VOA HCl (N/A)	V69T-40 mL VOA Na2S2O3 (N/A)	V69U-40 mL VOA Unpreserved (N/A)	D69V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG6U-100 mL Amber Unpreserved (N/A) (C-)	V5GU-20 mL Scintillation vials (N/A)	D69U-40 mL Amber Unpreserved vials (N/A)		
1		2	1																										
2		2	1																										
3		2	1																										
4		2	1																										
5		<del>2</del>	<del>1</del>																										
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).

# CHAIN-OF-CUSTODY / Analytical Request Document

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



<b>Section A</b>		<b>Required Client Information:</b>	
Company: Georgia Power - Coal Combustion Residuals		Address: 2480 Maner Road	
Address: GA 30239		Phone: (478) 820-8176	
Email: jhucoker@sculter.com		Fax:	
Requested Due Date: 10 Day TAT		<b>Section B</b>	
Requested Project Information:		<b>Report To:</b> Lauren Corber	
Copy To: Godder		Company Name: sculter.com	
Purchase Order #:		Project Name: Point MUD Air Q. 24 Assessment	
Project #:		Project #:	
GL: 18685872		Preservation: Well Network	
<b>Section C</b>		<b>Include Information:</b>	
Company Name: sculter.com		Project Name:	
Address:		Person Profile #:	
Project #:		Person Profile #:	

ITEM #	SAMPLE ID <i>(A-C, 0-1, ...)</i> One Character per box. Sample IDs must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	Preservatives								Analyses Test							Residual Chlorine (Y/N)				
						Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	App IIRIV + Mg, Na, K, Fe	Cl, F, SO4	Radium 9513/8320	TDS	Alkalinity	Fe Total, Fe 3+ (Ferric calculation)	Ferrous Iron					
1	MCD-B-92-WG-20230131	G	G	1/31/23	12:20	3	3	3	3																
2	MCD-B-92-WG-20230131	G	G	1/31/23	14:25	3	3	3	3																
3	MCD-B-96-WG-20230131	G	G	1/31/23	18:30	3	3	3	3																
4	MCD-B-87-WG-20230201	WG	G	2/1/23	11:30	6	3	3	3																

Task Code = MCD-CGR-ASSMNT-2023S1

REWORKED BY / APPROVAL	DATE	TIME	ACCEPTED BY / APPROVAL	DATE
M. BAYL	2-2-23	11:36	M. BAYL	2-2-23

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

DATE Signed: \_\_\_\_\_

92650189

001  
002  
003  
004





DC#\_Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta

Sample Condition Upon Receipt

Client Name:

GA Power

Project #:

WO#: 92650189

PM: BV

Due Date: 02/23/23

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: 2/3/23

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:

3.8

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):

3.8

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.
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:	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 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

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

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

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

\*\*\*Check all unpreserved Nitrates for chlorine

Project #

WO#: 92650189

PM: BV

Due Date: 02/23/23

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)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per lit)-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)	AG6U-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																											
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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: Georgia Power - Coal Combustion Residuals 2480 Manor Road Atlanta, GA 30339

Section B Required Project Information: Request To: Laurin Coker Copy To: Coker

Section C Invoice Information: Attention: scanickas@southmtd.com Address: Plant Med AP-2, 314 Assessment Pacemaker Well Network

Requested Date: 10 Day TAT

ITEM #	SAMPLE ID (AZ, GA, I, J) Sample IDs must be unique	MATRIX	CODE	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analytes Test	Residual Chlorine (Y/N)	Other			
								MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl				NaOH + Zn Acetate	Na2S2O3	Methanol
1	MCD-B-63-WG-20230202	District Water	DW	2/2/23	13:20		6	3	3										
2	MCD-B-102D-WG-20230202	Water	WT	2/2/23	12:05		6	3											
3	MCD-B-63-WG-20230203	Water	WT	2/2/23	12:15		6	3											
4	MCD-B-120D-WG-20230203	Water	WT	2/2/23	11:00		8	3											
5	MCD-B-101D-WG-20230203	Water	WT	2/2/23	13:10		6	3											
6	MCD-B-104D-WG-20230203	Water	WT	2/2/23	13:10		6	3											
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			

Additional Comments: Task Code = MCD-CFR-ASSMT-202351

Relinquished By: Laurin Coker Date: 02/09/23 Time: 1:20

Accepted By: *[Signature]* Date: 7/13/23

Temp in C: \_\_\_\_\_

Received on ice (Y/N): \_\_\_\_\_

Custody Sealed Cooler (Y/N): \_\_\_\_\_

Samples Intact (Y/N): \_\_\_\_\_

Residual Chlorine (Y/N): **92L56167**



DC#\_Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Sample Condition Upon Receipt

Client Name: GA Power

Project #: WO#: 92650189

Courier:  Commercial  Fed Ex  UPS  USPS  Client  Pace  Other:

PM: BV Due Date: 02/23/23 CLIENT: GA-GA Power

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 2/7/23 CTH

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?  Yes  No  N/A

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

Cooler Temp: 21 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): 2.2

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 type="checkbox"/> Yes <input checked="" 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.	B-107D one BPIN arrived empty.
-Includes Date/Time/ID/Analysis Matrix: W		11.	
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
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: \_\_\_\_\_



DC#\_Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

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

Exceptions: VOA, Coliform, TDC, 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#: 92650189

PM: BV

Due Date: 02/23/23

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP9U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BPFR-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	V56U-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
1	3	1																											
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11	3	1																											
12	2	1																											

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.



DC#\_ Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

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

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

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

\*\*\*Check all unpreserved Nitrates for chlorine

Project #

WO#: 92650189

PM: BV

Due Date: 02/23/23

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 2N Acetate & NaOH (>9)	BP4B-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)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
1		2	1																										
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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.





DC#\_Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Sample Condition Upon Receipt

Client Name:

GA Power

Project #:

WO#: 92650189

Courier:

Commercial

Fed Ex

Pace

UPS

USPS

Other:

Client

PM: BV

Due Date: 02/23/23

CLIENT: GA-GA Power

Custody Seal Present?

Yes

No

Seals Intact?

Yes

No

Date/Initials Person Examining Contents: 2/8/23

CMH

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:

2.4

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):

2.4

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

	Chain of Custody Present?	Samples Arrived within Hold Time?	Short Hold Time Analysis (<72 hr.)?	Rush Turn Around Time Requested?	Sufficient Volume?	Correct Containers Used?	-Pace Containers Used?	Containers Intact?	Dissolved analysis: Samples Field Filtered?	Sample Labels Match COC?	-Includes Date/Time/ID/Analysis Matrix:	Headspace in VOA Vials (>5-6mm)?	Trip Blank Present?	Trip Blank Custody Seals Present?	Comments/Discrepancy:
1.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	W	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input checked="" 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 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

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

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

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

\*\*\*Check all unpreserved Nitrates for chlorine

Project #

WO#: 92650189

PM: BV

Due Date: 02/23/23

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)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1		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

Requested Client Information:  
 Company: Georgia Power - Coal Combustion Residue  
 Address: 2480 Waver Road  
 Atlanta, GA 30339  
 Email: [lancohen@southernca.com](mailto:lancohen@southernca.com)  
 Phone: (478) 628-6176  
 Requested Date: 10 Day TAT

### Section B

Requested Project Information:  
 Report To: Lauren Collier  
 Copy To: Goldie  
 Project Name: Plant MCD AP-2, 3M Assessment  
 Project #: QI168449622  
 Requested Due Date: 10 Day TAT

### Section C

Invoice Information:  
 Attention: [scdinhoc@southernca.com](mailto:scdinhoc@southernca.com)  
 Company Name:  
 Address:  
 City:  
 State:  
 Zip:  
 Project Manager: George Yang  
 Price Profile #:

Page: 1 of 1

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

MATRIX  
 Dioxine W/W  
 Water  
 Wast W/W  
 Product  
 Sludge  
 Oil  
 W/V  
 Air  
 Other  
 Tissue

CODE  
 DW  
 WT  
 VW  
 P  
 SL  
 OL  
 WP  
 AK  
 OT  
 TS

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								Analytes Test						Residual Chlorine (Y/N)	TEMP in C	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	Y/N	App H/V + Mg, Na, K, Fe	CL, SO4	Radium 9513/9320	TDS	Alkalinity						Fe Total, Fe 3+ (Ferric calculation)									
1	MCD-B-58-WG-20230207	WG	G	G	2/7/23	16:43		6	3																												
2	MCD-B-66-WG-20230207	WG	G	G	2/7/23	14:25		5	3																												
3	MCD-B-92-WG-20230207	WG	G	G	2/7/23	11:58		5	3																												
4	MCD-B-88-WG-20230207	WG	G	G	2/7/23	14:35		5	3																												
5	MCD-B-108D-WG-20230207	WG	G	G	2/7/23	15:45		5	3																												
6	MCD-B-108D-WG-20230207	WG	G	G	2/7/23	13:03		5	3																												
7	MCD-B-111D-WG-20230207	WG	G	G	2/7/23	11:46		5	3																												
8	MCD-A-P234-E-B-6-WG-20230207	WG	G	G	2/7/23	9:00		5	3																												
9	MCD-A-P234-F-B-6-WG-20230207	WG	G	G	2/7/23	12:35		5	3																												
10																																					
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12																																					
13																																					
14																																					

APPROVAL COMMENTS:  
 Task Code = MCD-025A990MT-2023SI

REQUISITIONED BY: LSS  
 DATE: 2/9/23 13:13  
 ACCOUPED BY: Charles Kelle  
 DATE: 2/9/23/13:58

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

92056165  
 021  
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 021  
 019  
 017  
 016  
 014  
 012

# Quality Control Sample Performance Assessment



Analyst **Must Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-226  
 Analyst: RMS  
 Date: 2/23/2023  
 Worklist: 71466  
 Matrix: WT

Method Blank Assessment	
MB Sample ID	2753389
MB concentration:	0.032
MB 2 Sigma CSU:	0.106
MB MDC:	0.272
MB Numerical Performance Indicator:	0.58
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment		LCS/D (Y or N)?	Y
Count Date:		LCS71466	LCS071466
Spike I.D.:		3/1/2023	3/1/2023
Decay Corrected Spike Concentration (pCi/mL):		19-033	19-033
Volume Used (mL):		24.019	24.019
Aliquot Volume (L, g, F):		0.10	0.10
Target Conc. (pCi/L, g, F):		0.501	0.500
Uncertainty (Calculated):		4.795	4.807
Result (pCi/L, g, F):		0.058	0.058
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):		4.037	3.903
Numerical Performance Indicator:		-1.71	0.847
Percent Recovery:		84.20%	81.19%
Status vs Numerical Indicator:		Pass	Warning
Upper % Recovery Limits:		N/A	N/A
Lower % Recovery Limits:		125%	125%
		75%	75%

Duplicate Sample Assessment		LCS/D (Y or N)?	Y
Sample I.D.:		LCS71466	92650189021
Duplicate Sample I.D.:		LCS071466	92650189021DUP
Sample Result (pCi/L, g, F):		4.037	0.272
Sample Result 2 Sigma CSU (pCi/L, g, F):		0.868	0.190
Sample Duplicate Result (pCi/L, g, F):		3.903	0.161
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):		0.847	0.314
Are sample and/or duplicate results below RL?		NO	See Below ##
Duplicate Numerical Performance Indicator:		0.217	0.592
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:		3.64%	51.29%
Duplicate Status vs Numerical Indicator:		Pass	Pass
Duplicate Status vs RPD:		N/A	N/A
% 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 2 Sigma CSU (pCi/L, g, F):			
Sample Matrix Spike Result:			
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:			

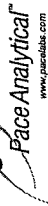
Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	
Sample MS I.D.:	
Sample MSD I.D.:	
Sample Matrix Spike Result:	
Sample Matrix Spike Duplicate Result:	
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	
MS/MSD Duplicate Status vs Numerical Indicator:	
% RPD Limit:	

## Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

*On 3/20/23*

# Quality Control Sample Performance Assessment



**Analyst Must Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-228  
Analyst: JJS1  
Date: 2/24/2023  
Worklist: 71467  
Matrix: WT

Method Blank Assessment	MB Sample ID	2753395
	MB concentration:	0.623
	M/B 2 Sigma CSU:	0.341
	MB MDC:	0.611
	MB Numerical Performance Indicator:	3.59
	MB Status vs Numerical Indicator:	Fail*
	MB Status vs. MDC:	See Comment*

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
Count Date:	LCSD71467	LCSD71467
Spike I.D.:	2/28/2023	2/28/2023
Decay Corrected Spike Concentration (pCi/mL):	33.400	33.400
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.803	0.802
Target Conc. (pCi/L, g, F):	4.166	4.166
Uncertainty (Calculated):	0.204	0.204
Result (pCi/L, g, F):	3.818	3.501
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.858	0.804
Numerical Performance Indicator:	-0.76	-1.57
Percent Recovery:	91.79%	84.03%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	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 MSD (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: Sample Matrix Spike Duplicate 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:		

Duplicate Sample Assessment	LCSD (Y or N)?	Y
Sample I.D.:	LCSD71467	LCSD71467
Duplicate Sample I.D.:	LCSD71467	LCSD71467
Sample Result (pCi/L, g, F):	3.818	3.818
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.858	0.858
Sample Duplicate Result (pCi/L, g, F):	3.501	3.501
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.804	0.804
Are sample and/or duplicate results below RL?:	NO	NO
Duplicate Numerical Performance Indicator:	0.528	0.528
Duplicate Percent Recoveries:	8.82%	8.82%
Duplicate Status vs Numerical Indicator:	Pass	Pass
Duplicate Status vs RPD:	Pass	Pass
% RPD Limit:	36%	36%

Matrix Spike/Matrix Spike Duplicate Sample Assessment	MS/MSD 1	MS/MSD 2
Sample I.D. Sample MS I.D. Sample MSD I.D. Sample Matrix Spike Result: Sample Matrix Spike Duplicate Result: Sample Matrix Spike Duplicate Duplicate Result: Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Sample Matrix Spike Duplicate 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:		

# 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.

*Handwritten signature*

*Handwritten signature: LAL 3/1/23*



July 28, 2023

Andrea McClure  
WSP/Golder  
5170 Peachtree Road  
Building 100, Suite 300  
Atlanta, GA 30341

RE: Project: Plant McD AP-1/AP-234 Assessme  
Pace Project No.: 92650426

Dear Andrea McClure:

Enclosed are the analytical results for sample(s) received by the laboratory on February 03, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,

Bonnie Vang  
bonnie.vang@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: Stephen Benda, Southern Company  
Daniela Herrera, Golder  
Ben Hodges, Georgia Power-CCR  
J. Shelby Mobley, Southern Company  
Charles Norton, Southern Company  
Dawn Prell, WSP USA E&I Inc\_Atlanta  
Yong Cheng Soo, WSP/Golder



## REPORT OF LABORATORY ANALYSIS

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### CERTIFICATIONS

Project: Plant McD AP-1/AP-234 Assessme

Pace Project No.: 92650426

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**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

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**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

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**Pace Analytical Services Peachtree Corners**

110 Technology Pkwy, Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

Virginia Certification #: 460204

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### REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: Plant McD AP-1/AP-234 Assessme  
Pace Project No.: 92650426

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92650426001	MCD-B-62	Water	02/02/23 13:52	02/03/23 16:23
92650426002	MCD-B-100	Water	02/02/23 12:43	02/03/23 16:23
92650426003	MCD-AP234-FB-2	Water	02/02/23 12:43	02/03/23 16:23

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Plant McD AP-1/AP-234 Assessme

Pace Project No.: 92650426

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92650426001	MCD-B-62	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92650426002	MCD-B-100	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92650426003	MCD-AP234-FB-2	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		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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## PROJECT NARRATIVE

Project: Plant McD AP-1/AP-234 Assessme

Pace Project No.: 92650426

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**Date:** July 28, 2023

Georgia Power EQulS Database Manager requested Pace Project Manager remove the sample matrix and date from the Sample IDs. This update ensures sample nomenclature is followed on final PDF and EDD for successful upload of laboratory data into the Georgia Power EQulS database.

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Plant McD AP-1/AP-234 Assessme  
Pace Project No.: 92650426

---

**Method:** EPA 6010D  
**Description:** 6010D ATL ICP  
**Client:** Georgia Power  
**Date:** July 28, 2023

### General Information:

3 samples were analyzed for EPA 6010D by Pace Analytical Services Peachtree Corners, GA. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Sample Preparation:

The samples were prepared in accordance with EPA 3010A with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 755832

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92650180001

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

- MS (Lab ID: 3927043)
  - Calcium
  - Magnesium
  - Sodium
- MSD (Lab ID: 3927044)
  - Potassium

### Additional Comments:

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Plant McD AP-1/AP-234 Assessme

Pace Project No.: 92650426

---

**Method:** EPA 6020B

**Description:** 6020 MET ICPMS

**Client:** Georgia Power

**Date:** July 28, 2023

**General Information:**

3 samples were analyzed for EPA 6020B by Pace Analytical Services Peachtree Corners, GA. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**

The samples were prepared in accordance with EPA 3005A with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Internal Standards:**

All internal standards were within QC limits with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Plant McD AP-1/AP-234 Assessme  
Pace Project No.: 92650426

---

**Method:** EPA 7470A  
**Description:** 7470 Mercury  
**Client:** Georgia Power  
**Date:** July 28, 2023

**General Information:**

3 samples were analyzed for EPA 7470A by Pace Analytical Services Peachtree Corners, GA. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**

The samples were prepared in accordance with EPA 7470A with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Internal Standards:**

All internal standards were within QC limits with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Plant McD AP-1/AP-234 Assessme  
Pace Project No.: 92650426

---

**Method:** SM 2540C-2015  
**Description:** 2540C Total Dissolved Solids  
**Client:** Georgia Power  
**Date:** July 28, 2023

### General Information:

3 samples were analyzed for SM 2540C-2015 by Pace Analytical Services Peachtree Corners, GA. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

### Additional Comments:

Analyte Comments:

QC Batch: 754118

- 1g: Sample residue exceeded method SM 2540C recommended 200 mg.
  - DUP (Lab ID: 3917653)
  - Total Dissolved Solids

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Plant McD AP-1/AP-234 Assessme

Pace Project No.: 92650426

---

**Method:** SM 2320B-2011

**Description:** 2320B Alkalinity

**Client:** Georgia Power

**Date:** July 28, 2023

### General Information:

3 samples were analyzed for SM 2320B-2011 by Pace Analytical Services Asheville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 754413

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92650181010,92650181012

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

- MS (Lab ID: 3919375)
  - Alkalinity, Total as CaCO<sub>3</sub>
- MSD (Lab ID: 3919376)
  - Alkalinity, Total as CaCO<sub>3</sub>

### Additional Comments:

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Plant McD AP-1/AP-234 Assessme  
Pace Project No.: 92650426

---

**Method:** EPA 300.0 Rev 2.1 1993  
**Description:** 300.0 IC Anions 28 Days  
**Client:** Georgia Power  
**Date:** July 28, 2023

### General Information:

3 samples were analyzed for EPA 300.0 Rev 2.1 1993 by Pace Analytical Services Asheville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 754259

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92650182006,92650416003

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

- MS (Lab ID: 3918327)
  - Sulfate
- MSD (Lab ID: 3918328)
  - Sulfate

### Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Plant McD AP-1/AP-234 Assessme

Pace Project No.: 92650426

Sample: MCD-B-62		Lab ID: 92650426001		Collected: 02/02/23 13:52		Received: 02/03/23 16:23		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Monitoring Well Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Client</b>				1		02/14/23 18:25		
Collected Date	<b>02/02/23</b>				1		02/14/23 18:25		
Collected Time	<b>13:58</b>				1		02/14/23 18:25		
pH	<b>6.33</b>	Std. Units			1		02/14/23 18:25		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	<b>6.5</b>	mg/L	0.040	0.025	1	02/14/23 17:00	02/15/23 18:14	7439-89-6	
Potassium	<b>2.3</b>	mg/L	0.20	0.15	1	02/14/23 17:00	02/15/23 18:14	7440-09-7	
Sodium	<b>9.9</b>	mg/L	1.0	0.58	1	02/14/23 17:00	02/15/23 18:14	7440-23-5	
Calcium	<b>32.4</b>	mg/L	1.0	0.12	1	02/14/23 17:00	02/15/23 18:14	7440-70-2	
Magnesium	<b>5.0</b>	mg/L	0.050	0.012	1	02/14/23 17:00	02/15/23 18:14	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/15/23 10:18	02/16/23 14:34	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/15/23 10:18	02/16/23 14:34	7440-38-2	
Barium	<b>0.019</b>	mg/L	0.0050	0.00067	1	02/15/23 10:18	02/16/23 14:34	7440-39-3	
Beryllium	<b>0.00012J</b>	mg/L	0.00050	0.000054	1	02/15/23 10:18	02/16/23 14:34	7440-41-7	
Boron	<b>0.064</b>	mg/L	0.040	0.0086	1	02/15/23 10:18	02/16/23 14:34	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/15/23 10:18	02/16/23 14:34	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/15/23 10:18	02/16/23 14:34	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/15/23 10:18	02/16/23 14:34	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/15/23 10:18	02/16/23 14:34	7439-92-1	
Lithium	<b>0.0082J</b>	mg/L	0.030	0.00073	1	02/15/23 10:18	02/16/23 14:34	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/15/23 10:18	02/16/23 14:34	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/15/23 10:18	02/16/23 14:34	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/15/23 10:18	02/16/23 14:34	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/17/23 09:20	02/17/23 13:42	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>197</b>	mg/L	25.0	25.0	1		02/07/23 18:41		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	<b>73.3</b>	mg/L	5.0	5.0	1		02/08/23 13:36		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/08/23 13:36		
Alkalinity, Total as CaCO3	<b>73.3</b>	mg/L	5.0	5.0	1		02/08/23 13:36		

### REPORT OF LABORATORY ANALYSIS

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**ANALYTICAL RESULTS**

Project: Plant McD AP-1/AP-234 Assessme  
 Pace Project No.: 92650426

**Sample: MCD-B-62**      **Lab ID: 92650426001**      Collected: 02/02/23 13:52      Received: 02/03/23 16:23      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	5.8	mg/L	1.0	0.60	1		02/08/23 06:31	16887-00-6	
Fluoride	0.16	mg/L	0.10	0.050	1		02/08/23 06:31	16984-48-8	
Sulfate	52.1	mg/L	1.0	0.50	1		02/08/23 06:31	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant McD AP-1/AP-234 Assessme

Pace Project No.: 92650426

Sample: MCD-B-100		Lab ID: 92650426002		Collected: 02/02/23 12:43		Received: 02/03/23 16:23		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Monitoring Well Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Client</b>				1		02/14/23 18:26		
Collected Date	<b>02/02/23</b>				1		02/14/23 18:26		
Collected Time	<b>12:46</b>				1		02/14/23 18:26		
pH	<b>5.30</b>	Std. Units			1		02/14/23 18:26		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	<b>20.9</b>	mg/L	0.040	0.025	1	02/14/23 17:00	02/15/23 18:19	7439-89-6	
Potassium	<b>1.1</b>	mg/L	0.20	0.15	1	02/14/23 17:00	02/15/23 18:19	7440-09-7	
Sodium	<b>26.1</b>	mg/L	1.0	0.58	1	02/14/23 17:00	02/15/23 18:19	7440-23-5	
Calcium	<b>46.9</b>	mg/L	1.0	0.12	1	02/14/23 17:00	02/15/23 18:19	7440-70-2	
Magnesium	<b>42.6</b>	mg/L	0.050	0.012	1	02/14/23 17:00	02/15/23 18:19	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/15/23 10:18	02/16/23 14:40	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/15/23 10:18	02/16/23 14:40	7440-38-2	
Barium	<b>0.098</b>	mg/L	0.0050	0.00067	1	02/15/23 10:18	02/16/23 14:40	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/15/23 10:18	02/16/23 14:40	7440-41-7	
Boron	<b>1.6</b>	mg/L	0.040	0.0086	1	02/15/23 10:18	02/16/23 14:40	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/15/23 10:18	02/16/23 14:40	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/15/23 10:18	02/16/23 14:40	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/15/23 10:18	02/16/23 14:40	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/15/23 10:18	02/16/23 14:40	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/15/23 10:18	02/16/23 14:40	7439-93-2	
Molybdenum	<b>0.19</b>	mg/L	0.010	0.00074	1	02/15/23 10:18	02/16/23 14:40	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/15/23 10:18	02/16/23 14:40	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/15/23 10:18	02/16/23 14:40	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/17/23 09:20	02/17/23 13:44	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>595</b>	mg/L	25.0	25.0	1		02/07/23 18:41		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	<b>11.4</b>	mg/L	5.0	5.0	1		02/08/23 13:56		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/08/23 13:56		
Alkalinity, Total as CaCO3	<b>11.4</b>	mg/L	5.0	5.0	1		02/08/23 13:56		

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### ANALYTICAL RESULTS

Project: Plant McD AP-1/AP-234 Assessme

Pace Project No.: 92650426

Sample: MCD-B-100 Lab ID: 92650426002 Collected: 02/02/23 12:43 Received: 02/03/23 16:23 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	11.7	mg/L	1.0	0.60	1		02/08/23 07:19	16887-00-6	
Fluoride	0.052J	mg/L	0.10	0.050	1		02/08/23 07:19	16984-48-8	
Sulfate	356	mg/L	8.0	4.0	8		02/08/23 14:25	14808-79-8	

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## ANALYTICAL RESULTS

Project: Plant McD AP-1/AP-234 Assessme

Pace Project No.: 92650426

Sample: MCD-AP234-FB-2 Lab ID: 92650426003 Collected: 02/02/23 12:43 Received: 02/03/23 16:23 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	ND	mg/L	0.040	0.025	1	02/14/23 17:00	02/15/23 18:33	7439-89-6	
Potassium	ND	mg/L	0.20	0.15	1	02/14/23 17:00	02/15/23 18:33	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	02/14/23 17:00	02/15/23 18:33	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	02/14/23 17:00	02/15/23 18:33	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	02/14/23 17:00	02/15/23 18:33	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/16/23 13:08	02/17/23 13:44	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/16/23 13:08	02/17/23 13:44	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	02/16/23 13:08	02/17/23 13:44	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/16/23 13:08	02/17/23 13:44	7440-41-7	
Boron	0.036J	mg/L	0.040	0.0086	1	02/16/23 13:08	02/17/23 13:44	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/16/23 13:08	02/17/23 13:44	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/16/23 13:08	02/17/23 13:44	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/16/23 13:08	02/17/23 13:44	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/16/23 13:08	02/17/23 13:44	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/16/23 13:08	02/17/23 13:44	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/16/23 13:08	02/17/23 13:44	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/16/23 13:08	02/17/23 13:44	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/16/23 13:08	02/17/23 13:44	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/17/23 09:20	02/17/23 13:47	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		02/07/23 18:42		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/08/23 14:43		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/08/23 14:43		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		02/08/23 14:43		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		02/08/23 07:35	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/08/23 07:35	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/08/23 07:35	14808-79-8	

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**QUALITY CONTROL DATA**

Project: Plant McD AP-1/AP-234 Assessme

Pace Project No.: 92650426

QC Batch:	755832	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples:	92650426001, 92650426002, 92650426003		

METHOD BLANK: 3927041 Matrix: Water

Associated Lab Samples: 92650426001, 92650426002, 92650426003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	02/15/23 17:07	
Iron	mg/L	ND	0.040	0.025	02/15/23 17:07	
Magnesium	mg/L	ND	0.050	0.012	02/15/23 17:07	
Potassium	mg/L	ND	0.20	0.15	02/15/23 17:07	
Sodium	mg/L	ND	1.0	0.58	02/15/23 17:07	

LABORATORY CONTROL SAMPLE: 3927042

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	103	80-120	
Magnesium	mg/L	1	1.0	102	80-120	
Potassium	mg/L	1	0.99	99	80-120	
Sodium	mg/L	1	1.1	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3927043 3927044

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92650180001 Result	Spike Conc.	Spike Conc.	Conc.								
Calcium	mg/L	70.2	1	1	69.6	71.4	-66	116	75-125	3	20	M1	
Iron	mg/L	1.8	1	1	2.8	2.8	98	104	75-125	2	20		
Magnesium	mg/L	24.4	1	1	24.8	25.5	42	113	75-125	3	20	M1	
Potassium	mg/L	7.8	1	1	8.7	9.1	89	138	75-125	5	20	M1	
Sodium	mg/L	18.4	1	1	19.0	19.5	60	112	75-125	3	20	M1	

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**QUALITY CONTROL DATA**

Project: Plant McD AP-1/AP-234 Assessme

Pace Project No.: 92650426

QC Batch:	755857	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3005A	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92650426001, 92650426002

METHOD BLANK: 3927212 Matrix: Water

Associated Lab Samples: 92650426001, 92650426002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	02/16/23 12:50	
Arsenic	mg/L	ND	0.0050	0.0022	02/16/23 12:50	
Barium	mg/L	ND	0.0050	0.00067	02/16/23 12:50	
Beryllium	mg/L	ND	0.00050	0.000054	02/16/23 12:50	
Boron	mg/L	ND	0.040	0.0086	02/16/23 12:50	
Cadmium	mg/L	ND	0.00050	0.00011	02/16/23 12:50	
Chromium	mg/L	ND	0.0050	0.0011	02/16/23 12:50	
Cobalt	mg/L	ND	0.0050	0.00039	02/16/23 12:50	
Lead	mg/L	ND	0.0010	0.00089	02/16/23 12:50	
Lithium	mg/L	ND	0.030	0.00073	02/16/23 12:50	
Molybdenum	mg/L	ND	0.010	0.00074	02/16/23 12:50	
Selenium	mg/L	ND	0.0050	0.0014	02/16/23 12:50	
Thallium	mg/L	ND	0.0010	0.00018	02/16/23 12:50	

LABORATORY CONTROL SAMPLE: 3927213

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	107	80-120	
Arsenic	mg/L	0.1	0.099	99	80-120	
Barium	mg/L	0.1	0.098	98	80-120	
Beryllium	mg/L	0.1	0.096	96	80-120	
Boron	mg/L	1	0.99	99	80-120	
Cadmium	mg/L	0.1	0.096	96	80-120	
Chromium	mg/L	0.1	0.10	100	80-120	
Cobalt	mg/L	0.1	0.098	98	80-120	
Lead	mg/L	0.1	0.099	99	80-120	
Lithium	mg/L	0.1	0.097	97	80-120	
Molybdenum	mg/L	0.1	0.10	101	80-120	
Selenium	mg/L	0.1	0.098	98	80-120	
Thallium	mg/L	0.1	0.098	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3927214 3927215

Parameter	Units	92650179003 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	0.092	111	91	75-125	19	20	
Arsenic	mg/L	0.0029J	0.1	0.1	0.11	0.098	104	95	75-125	9	20	

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**QUALITY CONTROL DATA**

Project: Plant McD AP-1/AP-234 Assessme

Pace Project No.: 92650426

Parameter	Units	3927214		3927215		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		92650179003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
Barium	mg/L	0.089	0.1	0.1	0.19	0.19	102	97	75-125	3	20	
Beryllium	mg/L	0.00016J	0.1	0.1	0.10	0.097	105	97	75-125	7	20	
Boron	mg/L	0.051	1	1	1.1	1.0	108	99	75-125	8	20	
Cadmium	mg/L	0.00019J	0.1	0.1	0.10	0.096	102	96	75-125	6	20	
Chromium	mg/L	ND	0.1	0.1	0.11	0.10	111	99	75-125	12	20	
Cobalt	mg/L	0.0080	0.1	0.1	0.12	0.11	108	98	75-125	9	20	
Lead	mg/L	ND	0.1	0.1	0.10	0.097	102	97	75-125	5	20	
Lithium	mg/L	0.0088J	0.1	0.1	0.12	0.11	107	99	75-125	8	20	
Molybdenum	mg/L	0.023	0.1	0.1	0.13	0.12	111	102	75-125	7	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.096	103	96	75-125	7	20	
Thallium	mg/L	ND	0.1	0.1	0.10	0.098	102	98	75-125	4	20	

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**QUALITY CONTROL DATA**

Project: Plant McD AP-1/AP-234 Assessme

Pace Project No.: 92650426

QC Batch: 756320

Analysis Method: EPA 6020B

QC Batch Method: EPA 3005A

Analysis Description: 6020 MET

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92650426003

METHOD BLANK: 3929306

Matrix: Water

Associated Lab Samples: 92650426003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	02/17/23 12:51	
Arsenic	mg/L	ND	0.0050	0.0022	02/17/23 12:51	
Barium	mg/L	ND	0.0050	0.00067	02/17/23 12:51	
Beryllium	mg/L	ND	0.00050	0.000054	02/17/23 12:51	
Boron	mg/L	ND	0.040	0.0086	02/17/23 12:51	
Cadmium	mg/L	ND	0.00050	0.00011	02/17/23 12:51	
Chromium	mg/L	ND	0.0050	0.0011	02/17/23 12:51	
Cobalt	mg/L	ND	0.0050	0.00039	02/17/23 12:51	
Lead	mg/L	ND	0.0010	0.00089	02/17/23 12:51	
Lithium	mg/L	ND	0.030	0.00073	02/17/23 12:51	
Molybdenum	mg/L	ND	0.010	0.00074	02/17/23 12:51	
Selenium	mg/L	ND	0.0050	0.0014	02/17/23 12:51	
Thallium	mg/L	ND	0.0010	0.00018	02/17/23 12:51	

LABORATORY CONTROL SAMPLE: 3929307

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.12	118	80-120	
Arsenic	mg/L	0.1	0.10	104	80-120	
Barium	mg/L	0.1	0.11	105	80-120	
Beryllium	mg/L	0.1	0.10	104	80-120	
Boron	mg/L	1	0.99	99	80-120	
Cadmium	mg/L	0.1	0.10	103	80-120	
Chromium	mg/L	0.1	0.10	103	80-120	
Cobalt	mg/L	0.1	0.10	101	80-120	
Lead	mg/L	0.1	0.11	107	80-120	
Lithium	mg/L	0.1	0.098	98	80-120	
Molybdenum	mg/L	0.1	0.10	105	80-120	
Selenium	mg/L	0.1	0.10	101	80-120	
Thallium	mg/L	0.1	0.11	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3929639 3929640

Parameter	Units	92648451004 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	0.12	110	115	75-125	4	20	
Arsenic	mg/L	ND	0.1	0.1	0.11	0.11	106	109	75-125	2	20	

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**QUALITY CONTROL DATA**

Project: Plant McD AP-1/AP-234 Assessme

Pace Project No.: 92650426

Parameter	Units	3929639		3929640		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92648451004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Barium	mg/L	0.014	0.1	0.1	0.12	0.13	110	111	75-125	1	20		
Beryllium	mg/L	0.000081J	0.1	0.1	0.094	0.095	94	95	75-125	1	20		
Boron	mg/L	2.4	1	1	3.4	3.3	98	89	75-125	3	20		
Cadmium	mg/L	0.0017	0.1	0.1	0.11	0.11	103	105	75-125	1	20		
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	102	102	75-125	0	20		
Cobalt	mg/L	0.027	0.1	0.1	0.12	0.13	97	99	75-125	2	20		
Lead	mg/L	ND	0.1	0.1	0.10	0.11	105	105	75-125	0	20		
Lithium	mg/L	0.0011J	0.1	0.1	0.097	0.097	96	96	75-125	0	20		
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.11	104	108	75-125	3	20		
Selenium	mg/L	ND	0.1	0.1	0.11	0.11	105	108	75-125	2	20		
Thallium	mg/L	ND	0.1	0.1	0.11	0.11	106	107	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: Plant McD AP-1/AP-234 Assessme

Pace Project No.: 92650426

QC Batch:	756583	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92650426001, 92650426002, 92650426003

METHOD BLANK: 3930812 Matrix: Water  
 Associated Lab Samples: 92650426001, 92650426002, 92650426003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/17/23 12:36	

LABORATORY CONTROL SAMPLE: 3930813

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: 3930814 3930815

Parameter	Units	3930814		3930815		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	0.0023	100	92	75-125	9	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-1/AP-234 Assessme

Pace Project No.: 92650426

QC Batch:	754118	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: 92650426001, 92650426002, 92650426003

METHOD BLANK: 3917651 Matrix: Water

Associated Lab Samples: 92650426001, 92650426002, 92650426003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/07/23 18:37	

LABORATORY CONTROL SAMPLE: 3917652

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	408	102	80-120	

SAMPLE DUPLICATE: 3917653

Parameter	Units	92648451007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1950	2030	4	10 1g	

SAMPLE DUPLICATE: 3917654

Parameter	Units	92649377019 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	528	540	2	10	

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REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA**

Project: Plant McD AP-1/AP-234 Assessme  
 Pace Project No.: 92650426

QC Batch: 754359 Analysis Method: SM 2320B-2011  
 QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity  
 Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92650426001, 92650426002

METHOD BLANK: 3918898 Matrix: Water  
 Associated Lab Samples: 92650426001, 92650426002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/08/23 10:50	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/08/23 10:50	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/08/23 10:50	

LABORATORY CONTROL SAMPLE: 3918899

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

LABORATORY CONTROL SAMPLE: 3918900

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.7	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3918901 3918902

Parameter	Units	3918901		3918902		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Alkalinity, Total as CaCO3	mg/L	73.3	50	50	127	107	112	80-120	2	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3918903 3918904

Parameter	Units	3918903		3918904		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Alkalinity, Total as CaCO3	mg/L	11.4	50	50	59.4	96	100	80-120	3	25	

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**QUALITY CONTROL DATA**

Project: Plant McD AP-1/AP-234 Assessme

Pace Project No.: 92650426

QC Batch: 754413

Analysis Method: SM 2320B-2011

QC Batch Method: SM 2320B-2011

Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92650426003

METHOD BLANK: 3919370

Matrix: Water

Associated Lab Samples: 92650426003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/08/23 14:25	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/08/23 14:25	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/08/23 14:25	

LABORATORY CONTROL SAMPLE: 3919371

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.4	101	80-120	

LABORATORY CONTROL SAMPLE: 3919372

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.2	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3919373 3919374

Parameter	Units	3919373		3919374		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Alkalinity, Total as CaCO3	mg/L	ND	50	50	50.4	101	101	80-120	0	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3919375 3919376

Parameter	Units	3919375		3919376		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Alkalinity, Total as CaCO3	mg/L	ND	50	50	11.2	22	19	80-120	18	25 M1	

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**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL DATA**

Project: Plant McD AP-1/AP-234 Assessme

Pace Project No.: 92650426

QC Batch: 754259 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: 92650426001, 92650426002, 92650426003

METHOD BLANK: 3918323 Matrix: Water  
 Associated Lab Samples: 92650426001, 92650426002, 92650426003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/07/23 23:52	
Fluoride	mg/L	ND	0.10	0.050	02/07/23 23:52	
Sulfate	mg/L	ND	1.0	0.50	02/07/23 23:52	

LABORATORY CONTROL SAMPLE: 3918324

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.9	100	90-110	
Fluoride	mg/L	2.5	2.6	104	90-110	
Sulfate	mg/L	50	50.7	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3918325 3918326

Parameter	Units	92650416003		3918325		3918326		% 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	0.93J	50	50	50.7	51.7	99	101	90-110	2	10		
Fluoride	mg/L	0.31	2.5	2.5	2.9	3.0	105	107	90-110	1	10		
Sulfate	mg/L	35.3	50	50	84.9	85.9	99	101	90-110	1	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3918327 3918328

Parameter	Units	92650182006		3918327		3918328		% 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	10.8	50	50	61.1	62.2	100	103	90-110	2	10		
Fluoride	mg/L	0.091J	2.5	2.5	2.7	2.8	105	108	90-110	3	10		
Sulfate	mg/L	252	50	50	296	296	88	88	90-110	0	10 M1		

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**REPORT OF LABORATORY ANALYSIS**

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## QUALIFIERS

Project: Plant McD AP-1/AP-234 Assessme

Pace Project No.: 92650426

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### 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 Sample residue exceeded method SM 2540C recommended 200 mg.

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 McD AP-1/AP-234 Assessme

Pace Project No.: 92650426

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92650426001	MCD-B-62				
92650426002	MCD-B-100				
92650426001	MCD-B-62	EPA 3010A	755832	EPA 6010D	755852
92650426002	MCD-B-100	EPA 3010A	755832	EPA 6010D	755852
92650426003	MCD-AP234-FB-2	EPA 3010A	755832	EPA 6010D	755852
92650426001	MCD-B-62	EPA 3005A	755857	EPA 6020B	756083
92650426002	MCD-B-100	EPA 3005A	755857	EPA 6020B	756083
92650426003	MCD-AP234-FB-2	EPA 3005A	756320	EPA 6020B	756469
92650426001	MCD-B-62	EPA 7470A	756583	EPA 7470A	756603
92650426002	MCD-B-100	EPA 7470A	756583	EPA 7470A	756603
92650426003	MCD-AP234-FB-2	EPA 7470A	756583	EPA 7470A	756603
92650426001	MCD-B-62	SM 2540C-2015	754118		
92650426002	MCD-B-100	SM 2540C-2015	754118		
92650426003	MCD-AP234-FB-2	SM 2540C-2015	754118		
92650426001	MCD-B-62	SM 2320B-2011	754359		
92650426002	MCD-B-100	SM 2320B-2011	754359		
92650426003	MCD-AP234-FB-2	SM 2320B-2011	754413		
92650426001	MCD-B-62	EPA 300.0 Rev 2.1 1993	754259		
92650426002	MCD-B-100	EPA 300.0 Rev 2.1 1993	754259		
92650426003	MCD-AP234-FB-2	EPA 300.0 Rev 2.1 1993	754259		

REPORT OF LABORATORY ANALYSIS

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DC#\_Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

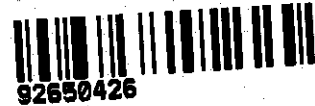
Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Sample Condition Upon Receipt

Client Name: GA Power

Project WO#: **92650426**

Courier:  Commercial  Fed Ex  Pace  UPS  USPS  Other:  Client



Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 2/3/23  
COV

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: 3.8 Correction Factor: 0.0 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): 3.8

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.
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: \_\_\_\_\_



DC#\_ Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

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

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

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

\*\*\*Check all unpreserved Nitrates for chlorine

Project #

WO#: 92650426

PM: BV

Due Date: 02/20/23

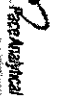
CLIENT: GA-GA Power

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)	BP4B-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-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9U-40 mL Amber NH4Cl (N/A)(C-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (C-)	VSGU-20 mL-Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
1		21																											
2		21																											
3		21																											
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 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.

<b>Section A</b> <b>Required Client Information:</b> Company: Georgia Power - Coal Combustion Residuals Address: 2480 Menter Road Atlanta, GA 30339 Email: jalcovak@scsiresearch.com Phone: (478) 620-4178 Fax: 10 Day TAT Requested Due Date: 10 Day TAT	<b>Section B</b> <b>Required Project Information:</b> Report To: Lauren Collier Copy To: Golfer Purchase Order #: Fraze BMD Air-1 and Air-234 Project Name: Assessment West Network Project #: GL185949622 <b>Section C</b> <b>Invoice Information:</b> Attention: scsiresearch@scsiresearch.com Company Name: Address: City: State: Zip: Project Manager: Bonnie Yang Purchasing #:
---	--

ITEM #	SAMPLE ID <small>One Character per box. (A-Z, 0-9, -, /, ) Sample IDs must be unique</small>	MATRIX <small>Drinking Water Waste Water Wastewater Surface Water Wet Weather Other Waste Air Soil Tissue</small>	CODE <small>DW WW WWT SW WV WA WO AI SO TI</small>	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	PRESERVATIVES							Requested Analysis Shared (Y/N)	Residual Chlorine (Y/N)	Remarks										
									# OF CONTAINERS										ANALYSIS TEST									
									Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	App III/IV + Mg, Na, K	Cl, F, SO4	Radium 9513/9320	TDS	Alkalinity	Fe Total, Fe 3+ (Ferric calculation)						
1	MCD-G-07-WG-20230202			WG	G	2/2/23	13:52		6	3	3	3						X	X	X	X	X	X					
2	MCD-B-100-WG-20230202			WG	G	2/2/23	12:43		6	3	3						X	X	X	X	X	X						
3	MCD-AP234-FB-2-WO-20230202			WG	G	2/2/23	12:43		6	3	3						X	X	X	X	X	X						
4																												
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												
13																												
14																												
ADDITIONAL COMMENTS: Task Code = MCD-CR-ASSMNT-2023S1									RELEASED BY:	DATE:	TIME:	ACCEPTED BY:	DATE:	SAMPLE CONDITIONS:		TEMP in C:	Received on Ice (Y/N):	Custody Sealed Cooler (Y/N):	Samples Intact (Y/N):									
									EW	02/09/23	1820	MS	1/12															

March 20, 2023

Andrea McClure  
WSP/Golder  
5170 Peachtree Road  
Building 100, Suite 300  
Atlanta, GA 30341

RE: Project: Plant McD AP-1234 Assessm RADS  
Pace Project No.: 92650427

Dear Andrea McClure:

Enclosed are the analytical results for sample(s) received by the laboratory on February 03, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Greensburg

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

Sincerely,



Bonnie Vang  
bonnie.vang@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR  
Stephen Benda, Southern Company  
Noelia Gangi, Georgia Power  
Daniela Herrera, Golder  
Ben Hodges, Georgia Power-CCR  
Kristen Jurinko  
Laura Midkiff, Georgia Power  
J. Shelby Mobley, Southern Company  
Charles Norton, Southern Company  
Dawn Prell, WSP USA E&I Inc\_Atlanta  
Michael Smilley, Georgia Power

Yong Cheng Soo, WSP/Golder  
Tina Sullivan, ERM



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Plant McD AP-1234 Assessm RADS  
Pace Project No.: 92650427

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### **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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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Plant McD AP-1234 Assessm RADS  
Pace Project No.: 92650427

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Lab ID	Sample ID	Matrix	Date Collected	Date Received
92650427001	MCD-B-62	Water	02/02/23 13:52	02/03/23 16:23
92650427002	MCD-B-100	Water	02/02/23 12:43	02/03/23 16:23
92650427003	MCD-AP234-FB-2	Water	02/02/23 12:43	02/03/23 16:23

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Plant McD AP-1234 Assessm RADS

Pace Project No.: 92650427

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92650427001	MCD-B-62	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92650427002	MCD-B-100	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92650427003	MCD-AP234-FB-2	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

### REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Plant McD AP-1234 Assessm RADS

Pace Project No.: 92650427

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**Date:** March 20, 2023

Georgia Power EQulS Database Manager requested Pace Project Manager remove the sample matrix and date from the Sample IDs. This update ensures sample nomenclature is followed on final PDF and EDD for successful upload of laboratory data into the Georgia Power EQulS database.

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Plant McD AP-1234 Assessm RADS

Pace Project No.: 92650427

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**Method:** EPA 9315

**Description:** 9315 Total Radium

**Client:** Georgia Power

**Date:** March 20, 2023

**General Information:**

3 samples were analyzed for EPA 9315 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Plant McD AP-1234 Assessm RADS

Pace Project No.: 92650427

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**Method:** EPA 9320

**Description:** 9320 Radium 228

**Client:** Georgia Power

**Date:** March 20, 2023

**General Information:**

3 samples were analyzed for EPA 9320 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Plant McD AP-1234 Assessm RADS

Pace Project No.: 92650427

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**Method:** Total Radium Calculation

**Description:** Total Radium 228+226

**Client:** Georgia Power

**Date:** March 20, 2023

**General Information:**

3 samples were analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-1234 Assessm RADS

Pace Project No.: 92650427

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: MCD-B-62</b> <b>Lab ID: 92650427001</b> Collected: 02/02/23 13:52      Received: 02/03/23 16:23      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.763 ± 0.263 (0.226)</b> <b>C:78% T:NA</b>	pCi/L	02/27/23 18:33	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.838 ± 0.426 (0.754)</b> <b>C:83% T:86%</b>	pCi/L	02/21/23 15:12	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.60 ± 0.689 (0.980)</b>	pCi/L	02/28/23 15:11	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-1234 Assessm RADS

Pace Project No.: 92650427

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: MCD-B-100</b> <b>Lab ID: 92650427002</b> Collected: 02/02/23 12:43      Received: 02/03/23 16:23      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.145 ± 0.120 (0.212)</b> <b>C:91% T:NA</b>	pCi/L	02/27/23 18:33	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.836 ± 0.395 (0.665)</b> <b>C:83% T:88%</b>	pCi/L	02/21/23 15:12	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.981 ± 0.515 (0.877)</b>	pCi/L	02/28/23 15:11	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-1234 Assessm RADS

Pace Project No.: 92650427

**Sample: MCD-AP234-FB-2**      **Lab ID: 92650427003**      Collected: 02/02/23 12:43      Received: 02/03/23 16:23      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	<b>0.00405 ± 0.0876 (0.240)</b> <b>C:83% T:NA</b>	pCi/L	02/27/23 18:34	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.366 ± 0.282 (0.552)</b> <b>C:86% T:100%</b>	pCi/L	02/21/23 15:12	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.370 ± 0.370 (0.792)</b>	pCi/L	02/28/23 15:11	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD AP-1234 Assessm RADS

Pace Project No.: 92650427

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QC Batch:	565964	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92650427001, 92650427002, 92650427003

---

METHOD BLANK: 2748587 Matrix: Water

Associated Lab Samples: 92650427001, 92650427002, 92650427003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0712 ± 0.0809 (0.156) C:99% T:NA	pCi/L	02/27/23 19:32	

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

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD AP-1234 Assessm RADS

Pace Project No.: 92650427

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QC Batch:	565965	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92650427001, 92650427002, 92650427003

---

METHOD BLANK: 2748588 Matrix: Water

Associated Lab Samples: 92650427001, 92650427002, 92650427003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.343 ± 0.275 (0.547) C:87% T:103%	pCi/L	02/21/23 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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## QUALIFIERS

Project: Plant McD AP-1234 Assessm RADS

Pace Project No.: 92650427

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### DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McD AP-1234 Assessm RADS

Pace Project No.: 92650427

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92650427001	MCD-B-62	EPA 9315	565964		
92650427002	MCD-B-100	EPA 9315	565964		
92650427003	MCD-AP234-FB-2	EPA 9315	565964		
92650427001	MCD-B-62	EPA 9320	565965		
92650427002	MCD-B-100	EPA 9320	565965		
92650427003	MCD-AP234-FB-2	EPA 9320	565965		
92650427001	MCD-B-62	Total Radium Calculation	570492		
92650427002	MCD-B-100	Total Radium Calculation	570492		
92650427003	MCD-AP234-FB-2	Total Radium Calculation	570492		

### REPORT OF LABORATORY ANALYSIS

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DC#\_Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

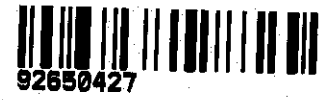
Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Sample Condition Upon Receipt

Client Name: GA Power

Project #: **WO# : 92650427**



Courier:  Commercial  Fed Ex  Pace  UPS  USPS  Client  Other: \_\_\_\_\_

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

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

Cooler Temp: 3.8 Correction Factor: 0.0 Add/Subtract (°C)

Cooler Temp Corrected (°C): 3.8

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

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



DC#\_Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

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

Project # **WO# : 92650427**

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

PM: BV Due Date: 02/27/23

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

CLIENT: GA-GA Power

\*\*\*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)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1	/	21	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	/	21	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
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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 DENR 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: RMS  
Date: 2/16/2023  
Worklist: 71389  
Matrix: WT

Method Blank Assessment	
MB Sample ID	2748587
MB concentration:	0.071
MB 2 Sigma CSU:	0.081
MB MDC:	0.156
MB Numerical Performance Indicator:	1.72
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment		LCS D (Y or N)?	Y
Count Date:	2/28/2023	LCS D71389	
Spike I.D.:	19-033	19-033	
Decay Corrected Spike Concentration (pCi/mL):	24.019	24.019	
Volume Used (mL):	0.10	0.10	
Aliquot Volume (L, g, F):	0.508	0.501	
Target Conc. (pCi/L, g, F):	4.732	4.790	
Uncertainty (Calculated):	0.057	0.057	
Result (pCi/L, g, F):	4.831	4.556	
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.872	0.834	
Numerical Performance Indicator:	102.08%	-0.55	
Percent Recovery:	Pass	95.13%	
Status vs Numerical Indicator:	Pass	Pass	
Upper % Recovery Limits:	N/A	N/A	
Lower % Recovery Limits:	125%	125%	
	75%	75%	

Duplicate Sample Assessment		92650186009DUP
Sample I.D.:	LCS71389	92650186009
Duplicate Sample I.D.:	4.831	0.176
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.872	0.137
Sample Duplicate Result (pCi/L, g, F):	4.556	0.116
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.834	0.164
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	0.446	0.552
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	7.05%	41.14%
Duplicate Status vs Numerical Indicator:	Pass	Pass
Duplicate Status vs RPD:	N/A	N/A
% RPD Limit:	25%	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>MMS/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 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>Matrix 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>MMS/MSD Upper % Recovery Limits:</p> <p>MMS/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 2 Sigma CSU (pCi/L, g, F):</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:

ET  
2-28-23  
LAM 2/28/23

# Quality Control Sample Performance Assessment



**Analyst Must Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-228  
Analyst: JJS1  
Date: 2/17/2023  
Worklist: 71390  
Matrix: WT

Method Blank Assessment	
MB Sample ID	2748588
MB concentration:	0.343
MB 2 Sigma CSU:	0.275
MB MDC:	0.547
MB Numerical Performance Indicator:	2.45
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
LCSD (Y or N)?	Y
LCSD71390	2/21/2023
Count Date:	22-040
Spike I.D.:	33.478
Decay Corrected Spike Concentration (pCi/mL):	0.10
Volume Used (mL):	0.806
Aliquot Volume (L, g, F):	4.164
Target Conc. (pCi/L, g, F):	0.204
Uncertainty (Calculated):	3.777
Result (pCi/L, g, F):	0.876
LCS/LCSD 2 Sigma (pCi/L, g, F):	-2.56
Numerical Performance Indicator:	75.70%
Percent Recovery:	N/A
Status vs Numerical Indicator:	Pass
Upper % Recovery Limits:	135%
Lower % Recovery Limits:	60%

Duplicate Sample Assessment	
Sample I.D.:	LCSD71390
Duplicate Sample I.D.:	LCSD71390
Sample Result (pCi/L, g, F):	3.777
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.876
Sample Duplicate Result (pCi/L, g, F):	3.155
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.749
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	1.058
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	18.27%
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:

*VAL*  
*2/22/23*

Sample Matrix Spike Control Assessment	
Sample Collection Date:	MS/MSD 1
Sample ID:	MS/MSD 2
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 Result 2 Sigma CSU (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Sample 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:	
Sample Result 2 Sigma CSU (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Sample 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:	

April 20, 2023

Laura Hartley  
Southern Co.  
241 Ralph McGill Blvd  
NE, Bin 10160  
Atlanta, GA 30308

RE: Project: Plant Mcd Delineation  
Pace Project No.: 92661552

Dear Laura Hartley:

Enclosed are the analytical results for sample(s) received by the laboratory on April 11, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,



Bonnie Vang  
bonnie.vang@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: Daniela Herrera, Golder  
Laura Midkiff, Southern Co.  
Dawn Prell, WSP USA E&I Inc\_Atlanta



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Plant Mcd Delineation

Pace Project No.: 92661552

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### **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

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### **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

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### **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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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Plant Mcd Delineation  
Pace Project No.: 92661552

---

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92661552001	MCD-B-125D	Water	04/10/23 15:10	04/11/23 10:13

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Plant Mcd Delineation  
Pace Project No.: 92661552

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92661552001	MCD-B-125D	EPA 6010D	MS	1
		EPA 6020B	CW1	2
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	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: Plant Mcd Delineation  
Pace Project No.: 92661552

Sample: MCD-B-125D		Lab ID: 92661552001		Collected: 04/10/23 15:10		Received: 04/11/23 10:13		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>CUSTOMER</b>				1		04/20/23 15:01		
pH	<b>5.98</b>	Std. Units			1		04/20/23 15:01		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>139</b>	mg/L	1.0	0.12	1	04/12/23 11:15	04/12/23 16:45	7440-70-2	M1
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Boron	<b>1.0</b>	mg/L	0.040	0.0086	1	04/13/23 11:49	04/18/23 15:46	7440-42-8	
Lithium	<b>0.034</b>	mg/L	0.030	0.00073	1	04/13/23 11:49	04/18/23 15:46	7439-93-2	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>908</b>	mg/L	25.0	25.0	1		04/11/23 17:17		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	<b>7.4</b>	mg/L	1.0	0.60	1		04/12/23 19:13	16887-00-6	
Fluoride	<b>0.13</b>	mg/L	0.10	0.050	1		04/12/23 19:13	16984-48-8	
Sulfate	<b>507</b>	mg/L	10.0	5.0	10		04/13/23 04:41	14808-79-8	

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA**

Project: Plant Mcd Delineation

Pace Project No.: 92661552

QC Batch: 767530

Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A

Analysis Description: 6010D ATL

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92661552001

METHOD BLANK: 3984975

Matrix: Water

Associated Lab Samples: 92661552001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	04/12/23 16:30	

LABORATORY CONTROL SAMPLE: 3984976

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.99J	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3984977 3984978

Parameter	Units	92661552001		3984978		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Calcium	mg/L	139	1	1	131	139	-771	60	75-125	6	20 M1

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

**REPORT OF LABORATORY ANALYSIS**

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### QUALITY CONTROL DATA

Project: Plant Mcd Delineation  
Pace Project No.: 92661552

QC Batch: 767820      Analysis Method: EPA 6020B  
QC Batch Method: EPA 3005A      Analysis Description: 6020 MET  
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92661552001

METHOD BLANK: 3986568      Matrix: Water

Associated Lab Samples: 92661552001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	mg/L	ND	0.040	0.0086	04/14/23 18:39	
Lithium	mg/L	ND	0.030	0.00073	04/14/23 18:39	

LABORATORY CONTROL SAMPLE: 3986569

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	1.0	100	80-120	
Lithium	mg/L	0.1	0.10	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3986570      3986571

Parameter	Units	92661883001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	ND	1	1	0.89	0.94	89	94	75-125	6	20	
Lithium	mg/L	ND	0.1	0.1	0.092	0.096	91	95	75-125	5	20	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Plant Mcd Delineation  
Pace Project No.: 92661552

QC Batch: 767389	Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015	Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 92661552001	Laboratory: Pace Analytical Services - Peachtree Corners, GA

METHOD BLANK: 3984460 Matrix: Water  
Associated Lab Samples: 92661552001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	04/11/23 17:13	

LABORATORY CONTROL SAMPLE: 3984461

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	385	96	80-120	

SAMPLE DUPLICATE: 3984462

Parameter	Units	92657526001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	48.0	45.0	6	10	H1

SAMPLE DUPLICATE: 3984463

Parameter	Units	92661571001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	261	405	43	10	D6

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### QUALITY CONTROL DATA

Project: Plant Mcd Delineation  
Pace Project No.: 92661552

QC Batch: 767477 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: 92661552001

METHOD BLANK: 3984817 Matrix: Water  
Associated Lab Samples: 92661552001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	04/12/23 12:00	
Fluoride	mg/L	ND	0.10	0.050	04/12/23 12:00	
Sulfate	mg/L	ND	1.0	0.50	04/12/23 12:00	

LABORATORY CONTROL SAMPLE: 3984818

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	48.9	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3984819 3984820

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92661646002	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	25.3	50	50	72.3	73.7	94	97	90-110	2	10		
Fluoride	mg/L	1.1	2.5	2.5	3.5	3.6	96	100	90-110	3	10		
Sulfate	mg/L	126	50	50	173	175	94	98	90-110	1	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3984821 3984822

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92661482009	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	1.4	50	50	49.6	50.4	96	98	90-110	2	10		
Fluoride	mg/L	0.098J	2.5	2.5	2.5	2.5	95	97	90-110	2	10		
Sulfate	mg/L	3.8	50	50	51.8	52.7	96	98	90-110	2	10		

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## QUALIFIERS

Project: Plant Mcd Delineation

Pace Project No.: 92661552

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### 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.

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.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Mcd Delineation  
Pace Project No.: 92661552

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92661552001	MCD-B-125D				
92661552001	MCD-B-125D	EPA 3010A	767530	EPA 6010D	767591
92661552001	MCD-B-125D	EPA 3005A	767820	EPA 6020B	767967
92661552001	MCD-B-125D	SM 2540C-2015	767389		
92661552001	MCD-B-125D	EPA 300.0 Rev 2.1 1993	767477		

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DC#\_Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Sample Condition Upon Receipt

Client Name:

Georgia Power - Coal Combustion Residuals

Project #:

WO#: 92661552

Courier:  Commercial  Fed Ex  Pace  UPS  USPS  Client  Other: \_\_\_\_\_

PM: BV Due Date: 04/25/23 CLIENT: 92-GA Power

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 04/11/23 ST

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?  Yes  No  N/A

Thermometer:

TR Gun ID: 214 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): 3.4

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 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 checked="" type="checkbox"/> Yes <input 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: WG	
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 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

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

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

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

\*\*\*Check all unpreserved Nitrates for chlorine

Project #

WO#: 92661552

PM: BV

Due Date: 04/25/23

CLIENT: 92-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)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
1		2			11																								
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 DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

February 15, 2023

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

RE: Project: Plant McDonough-CCR Ash Pond  
Pace Project No.: 92650835

Dear Kelley Sharpe:


Enclosed are the analytical results for sample(s) received by the laboratory on February 07, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,



Maiya Parks  
maiya.parks@pacelabs.com  
(770)734-4200  
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR  
Ben Hodges, Georgia Power  
Warren Johnson, ARCADIS - Atlanta  
Allison Keefer, Southern Company  
Laura Midkiff, Georgia Power  
Tina Sullivan, ERM



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Plant McDonough-CCR Ash Pond

Pace Project No.: 92650835

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### **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

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### **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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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Plant McDonough-CCR Ash Pond  
Pace Project No.: 92650835

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92650835001	MCD-DW_DS	Water	02/07/23 11:36	02/07/23 15:08
92650835002	MCD-DW_US	Water	02/07/23 12:05	02/07/23 15:08
92650835003	MCD-CR-0.2	Water	02/07/23 12:13	02/07/23 15:08
92650835004	MCD-CR-0.5	Water	02/07/23 12:17	02/07/23 15:08

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Plant McDonough-CCR Ash Pond

Pace Project No.: 92650835

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92650835001	MCD-DW_DS	EPA 6010D	MS	4	PASI-GA
		EPA 6020B	CW1	3	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
		EPA 9056A	CDC	3	PASI-A
92650835002	MCD-DW_US	EPA 6010D	MS	4	PASI-GA
		EPA 6020B	CW1	3	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
		EPA 9056A	CDC	3	PASI-A
92650835003	MCD-CR-0.2	EPA 6010D	MS	4	PASI-GA
		EPA 6020B	CW1	3	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
		EPA 9056A	CDC	3	PASI-A
92650835004	MCD-CR-0.5	EPA 6010D	MS	4	PASI-GA
		EPA 6020B	CW1	3	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
		EPA 9056A	CDC	3	PASI-A

PASI-A = Pace Analytical Services - Asheville

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

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Plant McDonough-CCR Ash Pond  
Pace Project No.: 92650835

Sample: MCD-DW_DS	Lab ID: 92650835001	Collected: 02/07/23 11:36	Received: 02/07/23 15:08	Matrix: Water					
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	2.5	mg/L	0.20	1	02/10/23 14:52	02/13/23 20:46	7440-09-7		
Sodium	6.9	mg/L	1.0	1	02/10/23 14:52	02/13/23 20:46	7440-23-5		
Calcium	4.8	mg/L	1.0	1	02/10/23 14:52	02/13/23 20:46	7440-70-2		
Magnesium	1.6	mg/L	0.050	1	02/10/23 14:52	02/13/23 20:46	7439-95-4		
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Boron	ND	mg/L	0.040	1	02/13/23 11:28	02/13/23 19:22	7440-42-8		
Cobalt	ND	mg/L	0.0050	1	02/13/23 11:28	02/13/23 19:22	7440-48-4		
Lithium	ND	mg/L	0.030	1	02/13/23 11:28	02/13/23 19:22	7439-93-2		
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	93.0	mg/L	25.0	1		02/10/23 20:13			
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	25.8	mg/L	5.0	1		02/09/23 14:34			
Alkalinity, Total as CaCO <sub>3</sub>	25.8	mg/L	5.0	1		02/09/23 14:34			
<b>9056 IC anions 28 Days</b>									
Analytical Method: EPA 9056A									
Pace Analytical Services - Asheville									
Chloride	9.1	mg/L	1.0	1		02/09/23 03:43	16887-00-6		
Fluoride	0.11	mg/L	0.10	1		02/09/23 03:43	16984-48-8		
Sulfate	7.9	mg/L	1.0	1		02/09/23 03:43	14808-79-8		

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Plant McDonough-CCR Ash Pond  
Pace Project No.: 92650835

Sample: MCD-DW_US	Lab ID: 92650835002	Collected: 02/07/23 12:05		Received: 02/07/23 15:08		Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D ATL ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	3.0	mg/L	0.20	1	02/10/23 14:52	02/13/23 20:51	7440-09-7	
Sodium	7.5	mg/L	1.0	1	02/10/23 14:52	02/13/23 20:51	7440-23-5	
Calcium	5.0	mg/L	1.0	1	02/10/23 14:52	02/13/23 20:51	7440-70-2	
Magnesium	1.8	mg/L	0.050	1	02/10/23 14:52	02/13/23 20:51	7439-95-4	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Boron	ND	mg/L	0.040	1	02/13/23 11:28	02/13/23 19:28	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	02/13/23 11:28	02/13/23 19:28	7440-48-4	
Lithium	ND	mg/L	0.030	1	02/13/23 11:28	02/13/23 19:28	7439-93-2	
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	70.0	mg/L	25.0	1		02/10/23 20:16		
<b>2320B Alkalinity</b>								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	26.3	mg/L	5.0	1		02/09/23 14:40		
Alkalinity, Total as CaCO <sub>3</sub>	26.3	mg/L	5.0	1		02/09/23 14:40		
<b>9056 IC anions 28 Days</b>								
Analytical Method: EPA 9056A								
Pace Analytical Services - Asheville								
Chloride	8.7	mg/L	1.0	1		02/09/23 03:59	16887-00-6	
Fluoride	0.10	mg/L	0.10	1		02/09/23 03:59	16984-48-8	
Sulfate	6.0	mg/L	1.0	1		02/09/23 03:59	14808-79-8	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Plant McDonough-CCR Ash Pond  
Pace Project No.: 92650835

Sample: MCD-CR-0.2	Lab ID: 92650835003	Collected: 02/07/23 12:13	Received: 02/07/23 15:08	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D ATL ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	2.5	mg/L	0.20	1	02/10/23 14:52	02/13/23 20:56	7440-09-7	
Sodium	6.7	mg/L	1.0	1	02/10/23 14:52	02/13/23 20:56	7440-23-5	
Calcium	4.6	mg/L	1.0	1	02/10/23 14:52	02/13/23 20:56	7440-70-2	
Magnesium	1.6	mg/L	0.050	1	02/10/23 14:52	02/13/23 20:56	7439-95-4	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Boron	ND	mg/L	0.040	1	02/13/23 11:28	02/13/23 19:46	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	02/13/23 11:28	02/13/23 19:46	7440-48-4	
Lithium	ND	mg/L	0.030	1	02/13/23 11:28	02/13/23 19:46	7439-93-2	
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	37.0	mg/L	25.0	1		02/10/23 20:16		
<b>2320B Alkalinity</b>								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	25.5	mg/L	5.0	1		02/09/23 14:46		
Alkalinity, Total as CaCO <sub>3</sub>	25.5	mg/L	5.0	1		02/09/23 14:46		
<b>9056 IC anions 28 Days</b>								
Analytical Method: EPA 9056A								
Pace Analytical Services - Asheville								
Chloride	8.5	mg/L	1.0	1		02/09/23 04:16	16887-00-6	
Fluoride	0.10	mg/L	0.10	1		02/09/23 04:16	16984-48-8	
Sulfate	5.8	mg/L	1.0	1		02/09/23 04:16	14808-79-8	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Plant McDonough-CCR Ash Pond  
Pace Project No.: 92650835

Sample: MCD-CR-0.5	Lab ID: 92650835004	Collected: 02/07/23 12:17	Received: 02/07/23 15:08	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D ATL ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	2.6	mg/L	0.20	1	02/10/23 14:52	02/13/23 21:01	7440-09-7	BC
Sodium	6.8	mg/L	1.0	1	02/10/23 14:52	02/13/23 21:01	7440-23-5	
Calcium	4.7	mg/L	1.0	1	02/10/23 14:52	02/13/23 21:01	7440-70-2	
Magnesium	1.6	mg/L	0.050	1	02/10/23 14:52	02/13/23 21:01	7439-95-4	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Boron	ND	mg/L	0.040	1	02/13/23 11:28	02/13/23 19:52	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	02/13/23 11:28	02/13/23 19:52	7440-48-4	
Lithium	ND	mg/L	0.030	1	02/13/23 11:28	02/13/23 19:52	7439-93-2	
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	45.0	mg/L	25.0	1		02/10/23 20:16		
<b>2320B Alkalinity</b>								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	24.8	mg/L	5.0	1		02/09/23 14:52		
Alkalinity, Total as CaCO <sub>3</sub>	24.8	mg/L	5.0	1		02/09/23 14:52		
<b>9056 IC anions 28 Days</b>								
Analytical Method: EPA 9056A								
Pace Analytical Services - Asheville								
Chloride	8.5	mg/L	1.0	1		02/09/23 04:32	16887-00-6	
Fluoride	0.10	mg/L	0.10	1		02/09/23 04:32	16984-48-8	
Sulfate	5.8	mg/L	1.0	1		02/09/23 04:32	14808-79-8	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Plant McDonough-CCR Ash Pond  
Pace Project No.: 92650835

QC Batch: 755238 Analysis Method: EPA 6010D  
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL  
Laboratory: Pace Analytical Services - Peachtree Corners, GA  
Associated Lab Samples: 92650835001, 92650835002, 92650835003, 92650835004

METHOD BLANK: 3924100 Matrix: Water  
Associated Lab Samples: 92650835001, 92650835002, 92650835003, 92650835004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	02/13/23 18:46	
Magnesium	mg/L	ND	0.050	02/13/23 18:46	
Potassium	mg/L	ND	0.20	02/14/23 13:53	
Sodium	mg/L	ND	1.0	02/13/23 18:46	

LABORATORY CONTROL SAMPLE: 3924101

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	.94J	94	80-120	
Magnesium	mg/L	1	0.96	96	80-120	
Potassium	mg/L	1	1.0	104	80-120	
Sodium	mg/L	1	.99J	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3924102 3924103

Parameter	Units	92650428004 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result					
Calcium	mg/L	708J ug/L	1	1.7	1	1.7	99	100	75-125	0	20
Magnesium	mg/L	295 ug/L	1	1.3	1	1.3	101	98	75-125	3	20
Potassium	mg/L	403 ug/L	1	1.5	1	1.4	105	95	75-125	7	20
Sodium	mg/L	3610 ug/L	1	4.7	1	4.6	108	102	75-125	1	20

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### QUALITY CONTROL DATA

Project: Plant McDonough-CCR Ash Pond

Pace Project No.: 92650835

QC Batch: 755475 Analysis Method: EPA 6020B  
 QC Batch Method: EPA 3005A Analysis Description: 6020 MET  
 Laboratory: Pace Analytical Services - Peachtree Corners, GA  
 Associated Lab Samples: 92650835001, 92650835002, 92650835003, 92650835004

METHOD BLANK: 3925117 Matrix: Water  
 Associated Lab Samples: 92650835001, 92650835002, 92650835003, 92650835004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	mg/L	ND	0.040	02/13/23 17:22	
Cobalt	mg/L	ND	0.0050	02/13/23 17:22	
Lithium	mg/L	ND	0.030	02/13/23 17:22	

LABORATORY CONTROL SAMPLE: 3925118

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	0.98	98	80-120	
Cobalt	mg/L	0.1	0.092	92	80-120	
Lithium	mg/L	0.1	0.11	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3925119 3925120

Parameter	Units	92649808024		MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result						
Boron	mg/L	ND	1	1	0.92	0.98	91	97	75-125	6	20		
Cobalt	mg/L	ND	0.1	0.1	0.088	0.094	88	94	75-125	6	20		
Lithium	mg/L	ND	0.1	0.1	0.097	0.10	95	98	75-125	3	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.: 92650835

QC Batch: 755255 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: 92650835001, 92650835002, 92650835003, 92650835004

METHOD BLANK: 3924151 Matrix: Water  
Associated Lab Samples: 92650835001, 92650835002, 92650835003, 92650835004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	02/10/23 20:11	

LABORATORY CONTROL SAMPLE: 3924152

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	404	101	80-120	

SAMPLE DUPLICATE: 3924153

Parameter	Units	92650830002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	98.0	99.0	1	10	

SAMPLE DUPLICATE: 3924154

Parameter	Units	92651189001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	3260	3540	8	10	

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### QUALITY CONTROL DATA

Project: Plant McDonough-CCR Ash Pond  
Pace Project No.: 92650835

QC Batch: 754583 Analysis Method: SM 2320B-2011  
QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity  
Laboratory: Pace Analytical Services - Asheville  
Associated Lab Samples: 92650835001, 92650835002, 92650835003, 92650835004

METHOD BLANK: 3920245 Matrix: Water  
Associated Lab Samples: 92650835001, 92650835002, 92650835003, 92650835004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	02/09/23 13:05	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	02/09/23 13:05	

LABORATORY CONTROL SAMPLE: 3920246

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.1	100	80-120	

LABORATORY CONTROL SAMPLE: 3920247

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.2	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3920248 3920249

Parameter	Units	92650414004 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	40.7	50	50	93.2	93.5	105	106	80-120	0	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3920250 3920251

Parameter	Units	92650414005 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	24.7	50	50	73.9	74.3	98	99	80-120	1	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: Plant McDonough-CCR Ash Pond

Pace Project No.: 92650835

QC Batch: 754535 Analysis Method: EPA 9056A  
 QC Batch Method: EPA 9056A Analysis Description: 9056 IC anions 28 Days  
 Laboratory: Pace Analytical Services - Asheville  
 Associated Lab Samples: 92650835001, 92650835002, 92650835003, 92650835004

METHOD BLANK: 3919953 Matrix: Water  
 Associated Lab Samples: 92650835001, 92650835002, 92650835003, 92650835004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	02/09/23 09:59	
Fluoride	mg/L	ND	0.10	02/09/23 09:59	
Sulfate	mg/L	ND	1.0	02/09/23 09:59	

LABORATORY CONTROL SAMPLE: 3919954

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	52.8	106	90-110	
Fluoride	mg/L	2.5	2.6	106	90-110	
Sulfate	mg/L	50	53.8	108	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3919955 3919956

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92650830001	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	13.6	50	50	64.3	65.3	101	103	90-110	1	10		
Fluoride	mg/L	0.34	2.5	2.5	2.8	2.8	97	99	90-110	2	10		
Sulfate	mg/L	16.0	50	50	67.5	68.4	103	105	90-110	1	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3919957 3919958

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92650835004	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	8.5	50	50	59.6	59.9	102	103	90-110	0	10		
Fluoride	mg/L	0.10	2.5	2.5	2.5	2.6	97	99	90-110	1	10		
Sulfate	mg/L	5.8	50	50	57.7	57.9	104	104	90-110	0	10		

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## QUALIFIERS

Project: Plant McDonough-CCR Ash Pond  
Pace Project No.: 92650835

---

### 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.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McDonough-CCR Ash Pond

Pace Project No.: 92650835

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92650835001	MCD-DW_DS	EPA 3010A	755238	EPA 6010D	755286
92650835002	MCD-DW_US	EPA 3010A	755238	EPA 6010D	755286
92650835003	MCD-CR-0.2	EPA 3010A	755238	EPA 6010D	755286
92650835004	MCD-CR-0.5	EPA 3010A	755238	EPA 6010D	755286
92650835001	MCD-DW_DS	EPA 3005A	755475	EPA 6020B	755540
92650835002	MCD-DW_US	EPA 3005A	755475	EPA 6020B	755540
92650835003	MCD-CR-0.2	EPA 3005A	755475	EPA 6020B	755540
92650835004	MCD-CR-0.5	EPA 3005A	755475	EPA 6020B	755540
92650835001	MCD-DW_DS	SM 2540C-2015	755255		
92650835002	MCD-DW_US	SM 2540C-2015	755255		
92650835003	MCD-CR-0.2	SM 2540C-2015	755255		
92650835004	MCD-CR-0.5	SM 2540C-2015	755255		
92650835001	MCD-DW_DS	SM 2320B-2011	754583		
92650835002	MCD-DW_US	SM 2320B-2011	754583		
92650835003	MCD-CR-0.2	SM 2320B-2011	754583		
92650835004	MCD-CR-0.5	SM 2320B-2011	754583		
92650835001	MCD-DW_DS	EPA 9056A	754535		
92650835002	MCD-DW_US	EPA 9056A	754535		
92650835003	MCD-CR-0.2	EPA 9056A	754535		
92650835004	MCD-CR-0.5	EPA 9056A	754535		

### 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: 2839 Paces Ferry Rd, Atlanta, GA 30339  
**Section B**  
Required Project Information: Report To: Joju Abraham, Ben Hodges, Copy To: Warren Johnson, Purchase Order #: SCS10382776, Project Name: Plant McDonough, Project #:  
**Section C**  
Invoice Information: Attention: Joju Abraham, Company Name: GPC, Address: Pace Quote: Pace Project Manager: Mayla Parks@pacelabs.com, Pace Profile #: 2239

Company:	ARCADIS - Atlanta	Report To:	Joju Abraham, Ben Hodges
Address:	2839 Paces Ferry Rd Atlanta, GA 30339	Copy To:	Warren Johnson
Email:	warren.johnson@arcadis.com	Purchase Order #:	SCS10382776
Phone:	678.485.5298	Project Name:	Plant McDonough
Requested Due Date:	5 day TAT	Project #:	

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / -) Sample IDs must be unique	MATRIX On-site Water DWC Waste Water WW Product Solutions OI Wipe Air Other Tissue	CODE DWC WT WW P SL OL WP AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES	ANALYSES TEST	Y/N	Residual Chlorine (Y/N)
						START DATE TIME	END DATE TIME						
1	MCD-DW_DS			WS	G	27/2023	1136		Unpreserved			X	
2	MCD-DW_US			WS	G	27/2023	1205		H2SO4 HNO3 HCl NaOH Na2S2O3 Methanol Other		X		
3	MCD-CR-0.2			WS	G	27/2023	1248				X		
4	MCD-CR-0.5			WS	G	27/2023	1248				X		
5													
6													
7													
8													
9													
10													
11													
12													

ADDITIONAL COMMENTS: CCR App III - Boron (B), Calcium (Ca), Chloride (Cl), Fluoride (F), Sulfate, Total Dissolved Solids, Major Ions - Magnesium (Mg), Sodium (Na), Potassium (K), Total Alkalinity, Bicarbonate Alkalinity

RELINQUISHED BY / AFFILIATION: JPL Arcadis 2/7/23 DATE: 2/7/23 TIME: 1508

ACCEPTED BY / AFFILIATION: Charles Paul 2/7/23 DATE: 2/7/23 TIME: 1508

SAMPLER NAME AND SIGNATURE: PRINT Name of SAMPLER: Gowell G JPL 2-7-23

SAMPLE CONDITIONS: IP in C, ived on, day, pe, er, ples





DC#\_Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Sample Condition Upon Receipt

Client Name:

Arcadis

Project:

WO#: 92650835

PM: MP Due Date: 02/15/23

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: S 2-7-23

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:

6.1

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):

5.9

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 checked="" type="checkbox"/> Yes <input 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 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: \_\_\_\_\_



Effective Date: 11/14/2022

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

Project #

WO#: 92650835

PM: MP

Due Date: 02/15/23

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

CLIENT: GA-ArcadAtI

\*\*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)	DG94-40 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)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
1		2	1																										
2		2	1																										
3		2	1																										
4		2	1																										
5																													
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.

March 15, 2023

Jessica Ware  
ARCADIS - Atlanta  
2839 Paces Ferry Rd  
STE 900  
Atlanta, GA 30339

RE: Project: Plant McDonough-CCR Ash Pond  
Pace Project No.: 92653561

Dear Jessica Ware:

Enclosed are the analytical results for sample(s) received by the laboratory on February 22, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Greensburg

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

Sincerely,



Maiya Parks  
maiya.parks@pacelabs.com  
(770)734-4200  
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR  
Ben Hodges, Georgia Power-CCR  
Warren Johnson, ARCADIS - Atlanta  
Allison Keefer, Southern Company  
Laura Midkiff, Georgia Power  
Tina Sullivan, ERM



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Plant McDonough-CCR Ash Pond  
Pace Project No.: 92653561

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### **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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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Plant McDonough-CCR Ash Pond

Pace Project No.: 92653561

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92653561001	MCD-DW_DS	Water	02/21/23 13:00	02/22/23 14:37
92653561002	MCD-DW_US	Water	02/21/23 13:13	02/22/23 14:37
92653561003	MCD-CR-0.2	Water	02/21/23 13:18	02/22/23 14:37
92653561004	MCD-CR-0.5	Water	02/21/23 13:22	02/22/23 14:37
92653561005	MCD-CR-0.1	Water	02/21/23 12:46	02/22/23 14:37
92653561006	MCD-CR+0.4	Water	02/21/23 12:35	02/22/23 14:37
92653561007	MCD-CR+0.2	Water	02/21/23 12:43	02/22/23 14:37

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Plant McDonough-CCR Ash Pond  
Pace Project No.: 92653561

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92653561001	MCD-DW_DS	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92653561002	MCD-DW_US	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92653561003	MCD-CR-0.2	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92653561004	MCD-CR-0.5	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92653561005	MCD-CR-0.1	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92653561006	MCD-CR+0.4	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92653561007	MCD-CR+0.2	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	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: Plant McDonough-CCR Ash Pond

Pace Project No.: 92653561

**Sample: MCD-DW\_DS**      **Lab ID: 92653561001**      Collected: 02/21/23 13:00      Received: 02/22/23 14:37      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	<b>0.000 ± 0.673 (1.36)</b> <b>C:NA T:93%</b>	pCi/L	03/10/23 16:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	<b>0.572 ± 0.515 (1.05)</b> <b>C:71% T:77%</b>	pCi/L	03/09/23 15:46	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.572 ± 1.19 (2.41)</b>	pCi/L	03/15/23 16:18	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McDonough-CCR Ash Pond

Pace Project No.: 92653561

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: MCD-DW_US</b> <b>Lab ID: 92653561002</b> Collected: 02/21/23 13:13      Received: 02/22/23 14:37      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	<b>0.0855 ± 0.731 (1.42)</b> <b>C:NA T:94%</b>	pCi/L	03/10/23 16:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	<b>1.36 ± 0.545 (0.840)</b> <b>C:75% T:84%</b>	pCi/L	03/09/23 15:46	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.45 ± 1.28 (2.26)</b>	pCi/L	03/15/23 16:18	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McDonough-CCR Ash Pond

Pace Project No.: 92653561

**Sample: MCD-CR-0.2**      **Lab ID: 92653561003**      Collected: 02/21/23 13:18      Received: 02/22/23 14:37      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	<b>-0.319 ± 0.495 (1.20)</b> <b>C:NA T:93%</b>	pCi/L	03/10/23 16:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	<b>0.658 ± 0.370 (0.657)</b> <b>C:82% T:90%</b>	pCi/L	03/09/23 15:46	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.658 ± 0.865 (1.86)</b>	pCi/L	03/15/23 16:18	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McDonough-CCR Ash Pond

Pace Project No.: 92653561

**Sample: MCD-CR-0.5**      **Lab ID: 92653561004**      Collected: 02/21/23 13:22      Received: 02/22/23 14:37      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	<b>0.152 ± 0.517 (0.997)</b> <b>C:NA T:93%</b>	pCi/L	03/10/23 16:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	<b>0.295 ± 0.388 (0.825)</b> <b>C:73% T:83%</b>	pCi/L	03/09/23 15:46	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.447 ± 0.905 (1.82)</b>	pCi/L	03/15/23 16:18	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McDonough-CCR Ash Pond

Pace Project No.: 92653561

**Sample: MCD-CR-0.1**      **Lab ID: 92653561005**      Collected: 02/21/23 12:46      Received: 02/22/23 14:37      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	<b>-0.593 ± 0.503 (1.34)</b> <b>C:NA T:102%</b>	pCi/L	03/10/23 16:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	<b>0.421 ± 0.438 (0.904)</b> <b>C:72% T:78%</b>	pCi/L	03/09/23 15:47	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.421 ± 0.941 (2.24)</b>	pCi/L	03/15/23 16:18	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McDonough-CCR Ash Pond

Pace Project No.: 92653561

**Sample: MCD-CR+0.4**      **Lab ID: 92653561006**      Collected: 02/21/23 12:35      Received: 02/22/23 14:37      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	<b>-0.394 ± 0.600 (1.37)</b> <b>C:NA T:100%</b>	pCi/L	03/10/23 16:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	<b>0.644 ± 0.453 (0.871)</b> <b>C:78% T:74%</b>	pCi/L	03/13/23 17:07	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.644 ± 1.05 (2.24)</b>	pCi/L	03/15/23 16:21	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McDonough-CCR Ash Pond

Pace Project No.: 92653561

**Sample: MCD-CR+0.2**      **Lab ID: 92653561007**      Collected: 02/21/23 12:43      Received: 02/22/23 14:37      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	<b>-0.259 ± 0.562 (1.30)</b> <b>C:NA T:96%</b>	pCi/L	03/10/23 16:20	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	<b>0.516 ± 0.464 (0.937)</b> <b>C:75% T:70%</b>	pCi/L	03/13/23 17:07	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.516 ± 1.03 (2.24)</b>	pCi/L	03/15/23 16:21	7440-14-4	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McDonough-CCR Ash Pond

Pace Project No.: 92653561

QC Batch: 570028

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: 92653561001, 92653561002, 92653561003, 92653561004, 92653561005, 92653561006, 92653561007

METHOD BLANK: 2768270

Matrix: Water

Associated Lab Samples: 92653561001, 92653561002, 92653561003, 92653561004, 92653561005, 92653561006, 92653561007

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.604 ± 0.418 (0.796) C:73% T:86%	pCi/L	03/09/23 15:46	

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: Plant McDonough-CCR Ash Pond

Pace Project No.: 92653561

QC Batch: 570027

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: 92653561001, 92653561002, 92653561003, 92653561004, 92653561005, 92653561006, 92653561007

METHOD BLANK: 2768269

Matrix: Water

Associated Lab Samples: 92653561001, 92653561002, 92653561003, 92653561004, 92653561005, 92653561006, 92653561007

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.132 ± 0.411 (0.795) C:NA T:91%	pCi/L	03/10/23 16:20	

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: Plant McDonough-CCR Ash Pond

Pace Project No.: 92653561

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### DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McDonough-CCR Ash Pond  
Pace Project No.: 92653561

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92653561001	MCD-DW_DS	EPA 903.1	570027		
92653561002	MCD-DW_US	EPA 903.1	570027		
92653561003	MCD-CR-0.2	EPA 903.1	570027		
92653561004	MCD-CR-0.5	EPA 903.1	570027		
92653561005	MCD-CR-0.1	EPA 903.1	570027		
92653561006	MCD-CR+0.4	EPA 903.1	570027		
92653561007	MCD-CR+0.2	EPA 903.1	570027		
92653561001	MCD-DW_DS	EPA 904.0	570028		
92653561002	MCD-DW_US	EPA 904.0	570028		
92653561003	MCD-CR-0.2	EPA 904.0	570028		
92653561004	MCD-CR-0.5	EPA 904.0	570028		
92653561005	MCD-CR-0.1	EPA 904.0	570028		
92653561006	MCD-CR+0.4	EPA 904.0	570028		
92653561007	MCD-CR+0.2	EPA 904.0	570028		
92653561001	MCD-DW_DS	Total Radium Calculation	574099		
92653561002	MCD-DW_US	Total Radium Calculation	574099		
92653561003	MCD-CR-0.2	Total Radium Calculation	574099		
92653561004	MCD-CR-0.5	Total Radium Calculation	574099		
92653561005	MCD-CR-0.1	Total Radium Calculation	574099		
92653561006	MCD-CR+0.4	Total Radium Calculation	574101		
92653561007	MCD-CR+0.2	Total Radium Calculation	574101		

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Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at <https://info.pacelabs.com/hubs/spas-standard-terms.pdf>

**CHAIN-OF-CUSTODY / Analytical Request Document**

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

Section A Required Client Information: Company: ARCADIS Atlanta Address: 2839 Paces Ferry Rd SE Atlanta, GA 30339 Email: warren.johnson@arcadis.com Phone: (678) 485-5298 Requested Due Date: 5 Day SAT

Section B Required Project Information: Report To: Kelly Sharp, Warren Johnson Copy To: Ben Hodges, Jiju Abraham Project Name: Plant McDonough/COR-Ash Pond Closure Project #: Requested Due Date: 5 Day SAT

Section C Invoice Information: Attention: Pace Quote: Pace Project Manager: malya.parkes@pacelabs.com, Pace Profile #: 12896.2

Regulatory Agency: State / Location: GA

ITEM #	MCD-#	MATRIX	CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analyses Test	Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	
						START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3					Methanol
1	MCD-DW_DS	Drinking Water	DW	WS G	G	2/21/03	1300		2		X									
2	MCD-DW_US	Waste Water	WW	WS G	G	2/21/03	1313		2		X									
3	MCD-CR-0.3	Wipe	WIP	WS G	G	2/21/03	1318		2		X									
4	MCD-CR-0.5	Wipe	WIP	WS G	G	2/24/03	1322		2		X									
5	MCD-CR-0.1	Wipe	WIP	WS G	G	2/24/03	1246		2		X									
6	MCD-CR+0.4	Wipe	WIP	WS G	G	2/21/03	1235		2		X									
7	MCD-CR+0.2	Wipe	WIP	WS G	G	2/21/03	1243		2		X									
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS: MCD-CSURF-ASSMT-202331 (622)

RELINQUISHED BY / AFFILIATION: *ARCADIS* DATE: 2/21/03 TIME: 1437

ACCEPTED BY / AFFILIATION: *ARCADIS* DATE: 2/22/03 TIME: 1437

SAMPLER NAME AND SIGNATURE: PRINT Name of SAMPLER: SIGNATURE of SAMPLER: DATE Signed: 2-22-03

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



DC#\_Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Sample Condition Upon Receipt

Client Name: Arcadia's

Project # **WO# : 92653561**

PM: MP Due Date: 03/16/23  
CLIENT: GA-ArcadAt1

Courier:  Fed Ex  UPS  USPS  Pace  Other: \_\_\_\_\_

Client

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 2/24/23  
MP

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: 3.2 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): 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.
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>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: \_\_\_\_\_





DC#\_Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

**WO# : 92653561**

Project #

PM: MP

Due Date: 03/16/23

CLIENT: GA-ArcadAt

\*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

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-)	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)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

BP1U

**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.

**APPENDIX B**

Data Validation Summary, September 2022

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## Quality Control Review of Analytical Data- Ash Pond AP-2 and 3/4 Submitted by Pace Analytical Services, LLC September 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 September 7, 2022 and October 27, 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 Total Metals (USEPA Method 6020B), Cations (6010D), Anions (300.0), Alkalinity by Titration through Standard Method 2320B (SM2320B), and TDS (SM 2540C).

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

<b>Laboratory Precision:</b>	Laboratory goals for precision were met with the exception of TDS.
<b>Field Precision:</b>	Field goals for precision were met.
<b>Accuracy:</b>	Laboratory goals for accuracy were met with the exception of barium, calcium, fluoride, iron, magnesium, radium-226, radium-228, total radium, sodium, sulfate, and TDS, as described in the qualification sections below.
<b>Detection Limits:</b>	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 and below the reporting limit. The concentration reported is an estimated value.
- J+** The analyte was reported above the method detection limit; however, the concentration reported is an estimated value that may be biased high.
- 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 (see Table 1), qualifications may not have been required or applied to all samples collected. A summary of sample qualifications can be found in Table 2.

- Certain TDS results from SDG 92633523 were unable to achieve a constant weight due to matrix interference during analysis. The TDS results were qualified as J, estimated.
- Certain radium-228 results from SDG 92625212 had laboratory control samples/laboratory control sample duplicate (LCS/LCSD) recoveries outside of QC criteria. The associated samples were non-detect and did not require qualification. Radium-228 results from SDGs 92625627 and 92625219 were qualified as J+ as the associated LCSD recoveries were above the QC criteria. Total radium also received the J+ qualifier since an individual isotope was qualified.
- Certain calcium, magnesium, sodium, and sulfate results from SDGs 92624373, 92628215, 92625623 and 92625189 had matrix spike and matrix spike duplicate (MS/MSD) recoveries outside of the QC criteria. All sample results were greater than 4x the added spike concentration, and no qualification was required.
- Fluoride from SDG 92628215 was qualified as J+ as the associated MS and MSD recoveries were above the QC criteria.
- Certain barium, TDS, radium-226, and radium-228 in SDGs 92624378, 92625623, 92624383, 92625627, 92625178, and 92625631 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 above the reporting limit (RL), the results were qualified as non-detect (U) and the RL was raised to the sample result.

- Certain total radium results from SDGs 92624378, 92624383, 92625627, and 92625631 were qualified as estimated, bias high (J+) due to one of the radium isotopes being U qualified from blank contamination and the other isotope being a non-detect.
- Iron from SDG 92625623 was qualified as U, non-detect, 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 RL, the results were qualified as non-detect (U) and the results were raised to the RL.

Golder reviewed the data from samples collected at Plant McDonough CCR Ash Pond AP-2 and 3/4 between September 7, 2022 and October 27, 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 (EPA 6020B)	Cations (EPA 6010D)	Anions (EPA 300.0)	Total Mercury (EPA 7470A)	TDS (SM 2540C-2011)	Alkalinity (SM 2320B)	Radium-226 (EPA 9315)	Radium-228 (EPA 9320)
92624376	DGWA-70A	9/7/2022	92624376001	WG	-	X	X	X	X	X	X	X	-	-
92624376	DGWA-71	9/7/2022	92624376002	WG	-	X	X	X	X	X	X	X	-	-
92624376	DGWA-53	9/8/2022	92624376003	WG	-	X	X	X	X	X	X	X	-	-
92624378	DGWA-70A	9/7/2022	92624378001	WG	-	-	-	-	-	-	-	-	X	X
92624378	DGWA-71	9/8/2022	92624378002	WG	-	-	-	-	-	-	-	-	X	X
92624378	DGWA-53	9/8/2022	92624378003	WG	-	-	-	-	-	-	-	-	X	X
92624373	B-100	9/8/2022	92624373003	WG	-	X	X	X	X	X	X	X	-	-
92624373	B-62	9/8/2022	92624373004	WG	-	X	X	X	X	X	X	X	-	-
92624383	B-100	9/8/2022	92624383003	WG	-	-	-	-	-	-	-	-	X	X
92624383	B-62	9/8/2022	92624383004	WG	-	-	-	-	-	-	-	-	X	X
92625623	DGWC-14	9/13/2022	92625623001	WG		X	X	X	X	X	X	X	-	-
92625623	DGWC-15	9/13/2022	92625623002	WG		X	X	X	X	X	X	X	-	-
92625623	DGWC-42	9/13/2022	92625623003	WG		X	X	X	X	X	X	X	-	-
92625623	DGWC-47	9/13/2022	92625623004	WG		X	X	X	X	X	X	X	-	-
92625623	DGWC-48	9/13/2022	92625623005	WG		X	X	X	X	X	X	X	-	-
92625623	EB-3	9/13/2022	92625623006	WQ	EB (DGWC-48)	-	X	X	X	X	X	X	-	-
92625623	FB-4	9/13/2022	92625623007	WQ	FB (DGWC-42)	-	X	X	X	X	X	X	-	-
92625623	DGWC-5	9/14/2022	92625623008	WG		X	X	X	X	X	X	X	-	-
92625623	DGWC-17	9/14/2022	92625623009	WG		X	X	X	X	X	X	X	-	-
92625623	DGWC-19	9/14/2022	92625623010	WG		X	X	X	X	X	X	X	-	-
92625623	DUP-5	9/14/2022	92625623011	WG	FD (DGWC-17)	-	X	X	X	X	X	X	-	-
92625623	DGWC-8	9/15/2022	92625623015	WG		X	X	X	X	X	X	X	-	-
92625623	DGWC-10	9/15/2022	92625623016	WG		X	X	X	X	X	X	X	-	-
92625623	DGWC-11	9/15/2022	92625623017	WG		X	X	X	X	X	X	X	-	-
92625623	DGWC-12	9/15/2022	92625623018	WG		X	X	X	X	X	X	X	-	-
92625623	DGWC-13	9/15/2022	92625623019	WG		X	X	X	X	X	X	X	-	-
92625623	DGWC-20	9/15/2022	92625623020	WG		X	X	X	X	X	X	X	-	-
92625623	DGWC-21	9/15/2022	92625623021	WG		X	X	X	X	X	X	X	-	-
92625623	EB-5	9/15/2022	92625623022	WQ	EB (DGWC-20)	-	X	X	X	X	X	X	-	-
92625623	DGWC-22	9/16/2022	92626314001	WG		X	X	X	X	X	X	X	-	-
92625623	DGWC-4	9/19/2022	92626314002	WG		X	X	X	X	X	X	X	-	-
92625623	DGWC-9	9/19/2022	92626314003	WG		X	X	X	X	X	X	X	-	-
92625623	Dup-6	9/19/2022	92626314004	WG	FD (DGWC-9)	-	X	X	X	X	X	X	-	-
92625623	DGWC-2	9/20/2022	92626314005	WG		X	X	X	X	X	X	X	-	-
92625623	DGWC-23	9/20/2022	92626314006	WG		X	X	X	X	X	X	X	-	-
92625627	DGWC-14	9/13/2022	92625627001	GW	-	-	-	-	-	-	-	-	X	X
92625627	DGWC-15	9/13/2022	92625627002	GW	-	-	-	-	-	-	-	-	X	X
92625627	DGWC-42	9/13/2022	92625627003	GW	-	-	-	-	-	-	-	-	X	X
92625627	DGWC-47	9/13/2022	92625627004	GW	-	-	-	-	-	-	-	-	X	X
92625627	DGWC-48	9/13/2022	92625627005	GW	-	-	-	-	-	-	-	-	X	X
92625627	EB-3	9/13/2022	92625627006	WQ	EB (DGWC-48)	-	-	-	-	-	-	-	X	X
92625627	FB-4	9/13/2022	92625627007	WQ	FB (DGWC-42)	-	-	-	-	-	-	-	X	X
92625627	DGWC-5	9/14/2022	92625627008	GW	-	-	-	-	-	-	-	-	X	X
92625627	DGWC-17	9/14/2022	92625627009	GW	-	-	-	-	-	-	-	-	X	X
92625627	DGWC-19	9/14/2022	92625627010	GW	-	-	-	-	-	-	-	-	X	X
92625627	DUP-5	9/14/2022	92625627011	GW	FD (DGWC-17)	-	-	-	-	-	-	-	X	X
92625627	DGWC-22	9/16/2022	92625627012	GW	-	-	-	-	-	-	-	-	X	X
92625627	DGWC-8	9/15/2022	92625627013	GW	-	-	-	-	-	-	-	-	X	X
92625627	DGWC-10	9/15/2022	92625627014	GW	-	-	-	-	-	-	-	-	X	X
92625627	DGWC-11	9/15/2022	92625627015	GW	-	-	-	-	-	-	-	-	X	X
92625627	DGWC-12	9/15/2022	92625627016	WG	-	-	-	-	-	-	-	-	X	X
92625627	DGWC-13	9/15/2022	92625627017	WG	-	-	-	-	-	-	-	-	X	X
92625627	DGWC-20	9/15/2022	92625627018	GW	-	-	-	-	-	-	-	-	X	X
92625627	DGWC-21	9/15/2022	92625627019	GW	-	-	-	-	-	-	-	-	X	X
92625627	EB-5	9/15/2022	92625627020	WQ	EB (DGWC-20)	-	-	-	-	-	-	-	X	X
92625627	DGWC-4	9/19/2022	92625627021	GW	-	-	-	-	-	-	-	-	X	X
92625627	DGWC-9	9/19/2022	92625627022	GW	-	-	-	-	-	-	-	-	X	X
92625627	Dup-6	9/19/2022	92625627023	GW	FD (DGWC-9)	-	-	-	-	-	-	-	X	X
92625627	DGWC-2	9/20/2022	92626980001	GW	-	-	-	-	-	-	-	-	X	X
92625627	DGWC-23	9/20/2022	92626980002	GW	-	-	-	-	-	-	-	-	X	X
92625178	B-83	9/13/2022	92625178003	GW	-	X	X	X	X	X	X	X	-	-
92625178	B-97	9/13/2022	92625178004	GW	-	X	X	X	X	X	X	X	-	-
92625178	B-98	9/13/2022	92625178005	GW	-	X	X	X	X	X	X	X	-	-
92625178	B-104D	9/13/2022	92625178006	GW	-	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 (EPA 6020B)	Cations (EPA 6010D)	Anions (EPA 300.0)	Total Mercury (EPA 7470A)	TDS (SM 2540C-2011)	Alkalinity (SM 2320B)	Radium-226 (EPA 9315)	Radium-228 (EPA 9320)
92625178	DUP-4	9/13/2022	92625178007	GW	FD (B-83)	-	X	X	X	X	X	X	-	-
92625178	B-77	9/13/2022	92625178008	GW	-	X	X	X	X	X	X	X	-	-
92625178	B-63	9/14/2022	92625178009	GW	-	X	X	X	X	X	X	X	-	-
92625178	B-107D	9/14/2022	92625178010	GW	-	X	X	X	X	X	X	X	-	-
92625178	B-111D	9/14/2022	92625178011	GW	-	X	X	X	X	X	X	X	-	-
92625178	B-115D	9/14/2022	92625178012	GW	-	X	X	X	X	X	X	X	-	-
92625178	FB-5	9/14/2022	92625178013	WQ	FB (B-63)	-	X	X	X	X	X	X	-	-
92625178	B-102D	9/15/2022	92625623012	GW	-	X	X	X	X	X	X	X	-	-
92625178	B-108D	9/15/2022	92625623013	GW	-	X	X	X	X	X	X	X	-	-
92625178	FB-6	9/15/2022	92625623014	WQ	FB (B-108D)	-	X	X	X	X	X	X	-	-
92625178	B-56	9/16/2022	92625178017	GW	-	X	X	X	X	X	X	X	-	-
92625178	B-66	9/16/2022	92625178018	GW	-	X	X	X	X	X	X	X	-	-
92625178	B-88	9/16/2022	92625178019	GW	-	X	X	X	X	X	X	X	-	-
92625178	B-101D	9/16/2022	92625178020	GW	-	X	X	X	X	X	X	X	-	-
92625178	B-106D	9/16/2022	92625178021	GW	-	X	X	X	X	X	X	X	-	-
92625178	B-82	9/16/2022	92625178022	GW	-	X	X	X	X	X	X	X	-	-
92625178	B-120D	9/19/2022	92625178023	GW	-	X	X	X	X	X	X	X	-	-
92625178	EB-6	9/19/2022	92625178024	WQ	EB (B-120D)	-	X	X	X	X	X	X	-	-
92625178	B-109D	9/20/2022	92625178025	GW	-	X	X	X	X	X	X	X	-	-
92625631	B-83	9/13/2022	92625631001	GW	-	-	-	-	-	-	-	-	X	X
92625631	B-97	9/13/2022	92625631002	GW	-	-	-	-	-	-	-	-	X	X
92625631	B-98	9/13/2022	92625631003	GW	-	-	-	-	-	-	-	-	X	X
92625631	B-104D	9/13/2022	92625631004	GW	-	-	-	-	-	-	-	-	X	X
92625631	DUP-4	9/13/2022	92625631005	GW	FD (B-83)	-	-	-	-	-	-	-	X	X
92625631	B-77	9/13/2022	92625631006	GW	-	-	-	-	-	-	-	-	X	X
92625631	B-63	9/14/2022	92625631007	GW	-	-	-	-	-	-	-	-	X	X
92625631	B-107D	9/14/2022	92625631008	GW	-	-	-	-	-	-	-	-	X	X
92625631	B-111D	9/14/2022	92625631009	GW	-	-	-	-	-	-	-	-	X	X
92625631	B-115D	9/14/2022	92625631010	GW	-	-	-	-	-	-	-	-	X	X
92625631	FB-5	9/14/2022	92625631011	WQ	FB (B-63)	-	-	-	-	-	-	-	X	X
92625631	B-56	9/16/2022	92625631012	GW	-	-	-	-	-	-	-	-	X	X
92625631	B-66	9/16/2022	92625631013	GW	-	-	-	-	-	-	-	-	X	X
92625631	B-88	9/16/2022	92625631014	GW	-	-	-	-	-	-	-	-	X	X
92625631	B-101D	9/16/2022	92625631015	GW	-	-	-	-	-	-	-	-	X	X
92625631	B-106D	9/16/2022	92625631016	GW	-	-	-	-	-	-	-	-	X	X
92625631	B-82	9/16/2022	92625631017	GW	-	-	-	-	-	-	-	-	X	X
92625631	B-102D	9/15/2022	92625631018	GW	-	-	-	-	-	-	-	-	X	X
92625631	B-108D	9/15/2022	92625631019	GW	-	-	-	-	-	-	-	-	X	X
92625631	FB-6	9/15/2022	92625631020	WQ	FB (B-108D)	-	-	-	-	-	-	-	X	X
92625631	B-120D	9/19/2022	92625631021	GW	-	-	-	-	-	-	-	-	X	X
92625631	EB-6	9/19/2022	92625631022	WQ	EB (B-120D)	-	-	-	-	-	-	-	X	X
92625631	B-109D	9/20/2022	92625631023	GW	-	-	-	-	-	-	-	-	X	X
92628215	B-92	9/12/2022	92625178001	GW	-	X	X	X	X	X	X	X	-	-
92628215	B-93	9/12/2022	92625178002	GW	-	X	X	X	X	X	X	X	-	-
92625219	B-92	9/12/2022	92625219001	GW	-	-	-	-	-	-	-	-	X	X
92625219	B-93	9/12/2022	92625219002	GW	-	-	-	-	-	-	-	-	X	X
92624826	B-116D	9/8/2022	92624826001	WG	-	X	X	X	X	X	X	X	-	-
92624826	DUP-2	9/8/2022	92624826002	WG	FD (B-116D)	X	X	X	X	X	X	X	-	-
92624826	B-118	9/9/2022	92624826003	WG	-	X	X	X	X	X	X	X	-	-
92624832	B-116D	9/8/2022	92624832001	WG	-	-	-	-	-	-	-	-	X	X
92624832	DUP-2	9/8/2022	92624832002	WG	FD (B-116D)	-	-	-	-	-	-	-	X	X
92624832	B-118	9/9/2022	92624832003	WG	-	-	-	-	-	-	-	-	X	X
92625185	B-79	9/12/2022	92625185001	WG	-	X	X	-	-	-	-	-	-	-
92625185	B-54	9/13/2022	92625185002	WG	-	X	X	-	-	-	-	-	-	-
92625185	B-64	9/13/2022	92625185003	WG	-	X	X	-	-	-	-	-	-	-
92625185	B-78	9/13/2022	92625185004	WG	-	X	X	-	-	-	-	-	-	-
92625185	B-76	9/13/2022	92625185005	WG	-	X	X	-	-	-	-	-	-	-
92625185	B-77	9/13/2022	92625185006	WG	-	X	X	-	-	-	-	-	-	-
92625185	B-63	9/14/2022	92625185007	WG	-	X	X	-	-	-	-	-	-	-
92625185	B-74	9/14/2022	92625185008	WG	-	X	X	-	-	-	-	-	-	-
92625185	B-66	9/16/2022	92625185009	WG	-	X	X	-	-	-	-	-	-	-
92625185	B-88	9/16/2022	92625185010	WG	-	X	X	-	-	-	-	-	-	-
92625185	B-82	9/16/2022	92625185011	WG	-	X	X	-	-	-	-	-	-	-
92624830	B-73	9/8/2022	92624830001	GW	-	X	X	-	-	-	-	-	-	-
92624830	B-62	9/8/2022	92624830002	GW	-	X	X	-	-	-	-	-	-	-
92624830	B-68	9/9/2022	92624830003	GW	-	X	X	-	-	-	-	-	-	-
92625189	B-90	9/13/2022	92625189001	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 (EPA 6020B)	Cations (EPA 6010D)	Anions (EPA 300.0)	Total Mercury (EPA 7470A)	TDS (SM 2540C-2011)	Alkalinity (SM 2320B)	Radium-226 (EPA 9315)	Radium-228 (EPA 9320)
92625189	B-91	9/13/2022	92625189002	WG	-	X	X	-	-	-	-	-	-	-
92625189	B-95	9/13/2022	92625189003	WG	-	X	X	-	-	-	-	-	-	-
92625189	B-99	9/13/2022	92625189004	WG	-	X	X	-	-	-	-	-	-	-
92625189	B-119D	9/13/2022	92625189005	WG	-	X	X	X	X	X	X	X	-	-
92625189	Dup-3	9/13/2022	92625189006	WG	FD (B-119D)	X	X	X	X	X	X	-	-	-
92625189	B-96	9/14/2022	92625189007	WG	-	X	X	-	-	-	-	-	-	-
92625189	B-122D	9/14/2022	92625189008	WG	-	X	X	X	X	X	X	X	-	-
92625189	EB-4	9/14/2022	92625189009	WQ	EB (B-122D)	X	X	X	X	X	X	-	-	-
92625189	B-117D	9/14/2022	92625189010	WG	-	X	X	X	X	X	X	X	-	-
92625189	B-123D	9/14/2022	92625189011	WG	-	X	X	X	X	X	X	X	-	-
92625212	B-119D	9/12/2022	92625212001	WG	-	-	-	-	-	-	-	-	X	X
92625212	Dup-3	9/12/2022	92625212002	WG	FD (B-119D)	-	-	-	-	-	-	-	X	X
92625212	B-122D	9/14/2022	92625212003	WG	-	-	-	-	-	-	-	-	X	X
92625212	EB-4	9/14/2022	92625212004	WQ	EB (B-122D)	-	-	-	-	-	-	-	X	X
92625212	B-117D	9/15/2022	92625212005	WG	-	-	-	-	-	-	-	-	X	X
92625212	B-123D	9/20/2022	92625212006	WG	-	-	-	-	-	-	-	-	X	X
92624825	SW-1	9/8/2022	92624825001	WS	-	X	X	-	-	-	-	-	-	-
92624825	SW-2	9/8/2022	92624825002	WS	-	X	X	-	-	-	-	-	-	-
92624825	SW-3	9/8/2022	92624825003	WS	-	X	X	-	-	-	-	-	-	-
92624825	SW-4	9/13/2022	92624825004	WS	-	X	X	-	-	-	-	-	-	-
92633523	DW_DS	10/27/2022	92633523001	WS	-	-	X	X	X	-	X	X	-	-
92633523	DW_US	10/27/2022	92633523002	WS	-	-	X	X	X	-	X	X	-	-
92633523	CR-0.2	10/27/2022	92633523003	WS	-	-	X	X	X	-	X	X	-	-
92633523	CR-0.5	10/27/2022	92633523004	WS	-	-	X	X	X	-	X	X	-	-

**Abbreviations:**

- |                            |                              |
|----------------------------|------------------------------|
| SDG- Sample Delivery Group | TDS - Total dissolved solids |
| QC - Quality Control       | FD - Field Duplicate         |
| SM - Standard Method       | EB - Equipment Blank         |
| WS - Surface Water         | FB - Field Blank             |
| WG - Groundwater           |                              |
| WQ - Water Quality         |                              |

**TABLE 2**  
**Qualifier Summary Table**  
**SCS Plant McDonough Ash Pond 2 and 3/4**

<b>SDG</b>	<b>Sample Name</b>	<b>Constituent</b>	<b>New Result</b>	<b>New RL or MDC</b>	<b>Qualifier</b>	<b>Reason</b>
92624378	DGWA-53	Radium 228	-	0.814	U	Method blank contamination
92624378	DGWA-53	Total Radium	-	-	J+	Method blank contamination
92624383	B-62	Radium 228	-	1.33	U	Method blank contamination
92624383	B-62	Total Radium	-	-	J+	Method blank contamination
92625623	DGWC-48	Barium	-	0.014	U	Equipment blank detection.
92625623	DGWC-42	Barium	-	0.016	U	Equipment blank detection.
92625623	DGWC-20	Iron	0.034	-	U	Equipment blank detection.
92625627	DGWC-2	Radium-226	-	0.367	U	Method Blank contamination
92625627	DGWC-23	Radium-226	-	0.226	U	Method Blank contamination
92625627	DGWC-20	Radium-228	-	1.28	U	Equipment Blank contamination
92625627	DGWC-20	Total Radium	-	-	J+	Equipment Blank contamination
92625627	DGWC-47	Radium-228	-	-	J+	LCSD exceeds QC limits
92625627	DGWC-47	Total Radium	-	-	J+	LCSD exceeds QC limits
92625627	DGWC-48	Radium-228	-	-	J+	LCSD exceeds QC limits
92625627	DGWC-48	Total Radium	-	-	J+	LCSD exceeds QC limits
92625178	B-108D	TDS	-	540	U	Field blank contamination
92625631	B-63	Radium-228	-	0.966	U	Field blank detection
92625631	B-63	Total Radium	-	-	J+	Field blank detection
92628215	B-93	Fluoride	-	-	J+	MS/MSD above QC limits
92625219	B-92	Radium-228	-	-	J+	LCSD exceeds QC limits
92625219	B-92	Total Radium	-	-	J+	LCSD exceeds QC limits
92625219	B-93	Radium-228	-	-	J+	LCSD exceeds QC limits
92625219	B-93	Total Radium	-	-	J+	LCSD exceeds QC limits
92633523	DW_DS	TDS	-	-	J	Matrix interference
92633523	DW_US	TDS	-	-	J	Matrix interference
92633523	CR-0.2	TDS	-	-	J	Matrix interference
92633523	CR-0.5	TDS	-	-	J	Matrix interference

**Abbreviations:**

RL : Reporting limit

MDC : Minimum detectable concentration

MDL: Method detection limit

SDG : Sample delivery group

TDS: Total Dissolved Solids

**Qualifier**

U: Non-detect

J: Estimated

J+: Estimated, bias high

**APPENDIX B**

Data Validation Summary, January-April 2023

**Quality Control Review of Analytical Data- Ash Pond AP-2 and 3/4  
Submitted by Pace Analytical Services, LLC  
January-April 2023**

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 31, 2023, and April 10, 2023. The chemical data were reviewed to identify quality issues which could affect the use of the data for decision making purposes.

Information regarding the primary sample locations, analytical parameters, QC samples, sampling dates, and laboratory sample delivery group (SDG) designations is summarized in Table 1. In accordance with groundwater monitoring and corrective action procedures discussed in Title 40 CFR, Subpart D - Standards for the Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments, the samples were analyzed for detection monitoring constituents listed in 40 CFR, Part 257, Appendix III and assessment monitoring constituents listed in 40 CFR, Part 257, Appendix IV. Additional analysis included alkalinity, cations (magnesium, potassium, and sodium) and total, ferrous, and ferric Iron. 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 (Standard Methods 2540C), Radium-226 (USEPA Method 9315), Radium-228 (USEPA Method 9320), Alkalinity by Titration (Standard Methods 2320B) and Iron (Standard Methods SM 3500-Fe).

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 total alkalinity and sulfate, as described in the qualification sections below.
- Detection Limits and Blanks:** Project goals for detection limits were met with the exception of TDS. 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 and below the reporting limit. 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 (see Table 1), qualifications may not have been required or applied to all samples collected. A summary of sample qualifications can be found in Table 2.

- Sulfate in AP234-FD-4, from SDG 92650181, was qualified J- as associated MS and MSD recoveries were below the QC criteria.
- Total alkalinity in DGWC-9, from SDG 92650181, was qualified UJ as associated MS and MSD recoveries were below the QC criteria.
- Certain potassium, TDS, sodium, calcium, cobalt, chromium, magnesium, barium, and boron in SDGs 92650181, 92650182, and 92650426 were qualified as U, non-detect, when the analyte was detected at a similar level in an associated blank sample. As shown in Table 2, if the original sample results were below the reporting limit (RL), the results were qualified as non-detect (U) and the RL was reported as the new results. If the original sample results were greater than the RL, the results were qualified U and the RL was raised to the sample result.
- Certain radium-226 and radium-228 results, from SDGs 92650188 and 92650189, were qualified as non-detect (U) due to an associated blank contamination. As shown in Table 2, if the original sample results were above the Minimum Detectable Concentration (MDC), the results were qualified as non-detect (U) and the MDC was raised to the sample result.
- Certain total radium results, from SDGs 92650188 and 92650189, were qualified as non-detect (U) due to one of the radium isotopes being U qualified from blank contamination and the other isotope being a non-detect.
- Certain total radium results, from SDG 92650188, were qualified as estimated, bias high (J+) due to one of the radium isotopes being U qualified from blank contamination and the other isotope being greater than the MDC.
- Certain dissolved metal concentrations, from SDG 92650184, were qualified as estimated values, J, when dissolved concentrations were greater than total concentrations.

Golder reviewed the data from samples collected at Plant McDonough CCR Ash Pond AP-2 and 3/4 between January 31, 2023, and April 10, 2023, in accordance with the analytical methods, the laboratory specific QC criteria, and the guidelines. As described above, 100% of the results were acceptable for project use.

## 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 (EPA 6020B)	Cations (EPA 6010D)	Anions (EPA 300.0)	Total Mercury (EPA 7470A)	TDS (SM 2540C-2011)	Alkalinity (SM 2320B)	Iron, Ferric (SM2500-Fe D)	Radium-226 (EPA 9315)	Radium-228 (EPA 9320)
92650179	DGWA-70A	1/31/2023	92650179001	WG	-	X	X	X	X	X	X	X	X	-	-
92650179	DGWA-71	1/31/2023	92650179002	WG	-	X	X	X	X	X	X	X	X	-	-
92650179	DGWA-53	2/1/2023	92650179003	WG	-	X	X	X	X	X	X	X	X	-	-
92650185	DGWA-70A	1/31/2023	92650185001	WG	-	-	-	-	-	-	-	-	-	X	X
92650185	DGWA-71	1/31/2023	92650185002	WG	-	-	-	-	-	-	-	-	-	X	X
92650185	DGWA-53	2/1/2023	92650185003	WG	-	-	-	-	-	-	-	-	-	X	X
92650181	DGWC-42	2/1/2023	92650181001	WG	-	X	X	X	X	X	X	X	X	-	-
92650181	DGWC-13	2/1/2023	92650181002	WG	-	X	X	X	X	X	X	X	X	-	-
92650181	DGWC-14	2/1/2023	92650181003	WG	-	X	X	X	X	X	X	X	X	-	-
92650181	AP234-FD-4	2/1/2023	92650181004	WG	FD (DGWC-42)	X	X	X	X	X	X	X	X	-	-
92650181	DGWC-10	2/2/2023	92650181005	WG	-	X	X	X	X	X	X	X	X	-	-
92650181	DGWC-15	2/2/2023	92650181006	WG	-	X	X	X	X	X	X	X	X	-	-
92650181	DGWC-47	2/3/2023	92650181007	WG	-	X	X	X	X	X	X	X	X	-	-
92650181	DGWC-4	2/3/2023	92650181008	WG	-	X	X	X	X	X	X	X	X	-	-
92650181	DGWC-48	2/3/2023	92650181009	WG	-	X	X	X	X	X	X	X	X	-	-
92650181	AP234-EB-3	2/3/2023	92650181010	WQ	EB (DGWC-4)	-	X	X	X	X	X	X	X	-	-
92650181	AP234-EB-2	2/2/2023	92650181011	WQ	EB (DGWC-15)	-	X	X	X	X	X	X	X	-	-
92650181	DGWC-9	2/3/2023	92650181012	WQ	-	X	X	X	X	X	X	X	X	-	-
92650181	AP234-FD-2	2/3/2023	92650181013	WG	FD (DGWC-48)	X	X	X	X	X	X	X	X	-	-
92650181	DGWC-2	2/6/2023	92650181014	WG	-	X	X	X	X	X	X	X	X	-	-
92650181	DGWC-11	2/6/2023	92650181015	WG	-	X	X	X	X	X	X	X	X	-	-
92650181	DGWC-12	2/6/2023	92650181016	WG	-	X	X	X	X	X	X	X	X	-	-
92650181	DGWC-17	2/6/2023	92650181017	WG	-	X	X	X	X	X	X	X	X	-	-
92650181	DGWC-19	2/6/2023	92650181018	WG	-	X	X	X	X	X	X	X	X	-	-
92650181	DGWC-22	2/6/2023	92650181019	WG	-	X	X	X	X	X	X	X	X	-	-
92650181	DGWC-23	2/6/2023	92650181020	WG	-	X	X	X	X	X	X	X	X	-	-
92650181	AP234-EB-4	2/6/2023	92650181021	WQ	EB (DGWC-19)	-	X	X	X	X	X	X	X	-	-
92650181	234-FD-3	2/6/2023	92650181022	WG	FD (DGWC-12)	X	X	X	X	X	X	X	X	-	-
92650181	234-FD-5	2/6/2023	92650181023	WG	FD (DGWC-23)	X	X	X	X	X	X	X	X	-	-
92650181	AP234-FB-4	2/6/2023	92650181024	WQ	FB (DGWC-2)	-	X	X	X	X	X	X	X	-	-
92650181	DGWC-5	2/7/2023	92650181025	WG	-	X	X	X	X	X	X	X	X	-	-
92650181	DGWC-8	2/7/2023	92650181026	WG	-	X	X	X	X	X	X	X	X	-	-
92650181	DGWC-20	2/7/2023	92650181027	WG	-	X	X	X	X	X	X	X	X	-	-
92650181	DGWC-21	2/7/2023	92650181028	WG	-	X	X	X	X	X	X	X	X	-	-
92650181	AP234-EB-5	2/7/2023	92650181029	WQ	EB (DGWC-8)	-	X	X	X	X	X	X	X	-	-
92650181	AP234-FB-5	2/7/2023	92650181030	WQ	FB (DGWC-5)	-	X	X	X	X	X	X	X	-	-
92650181	234-FD-6	2/7/2023	92650181031	WG	FD (DGWC-20)	X	X	X	X	X	X	X	X	-	-
92650188	234-FD-3	2/6/2023	92650188022	WG	FD (DGWC-12)	-	-	-	-	-	-	-	-	X	X
92650188	234-FD-5	2/6/2023	92650188023	WG	FD (DGWC-23)	-	-	-	-	-	-	-	-	X	X
92650188	234-FD-6	2/7/2023	92650188031	WG	FD (DGWC-20)	-	-	-	-	-	-	-	-	X	X
92650188	AP234-EB-2	2/2/2023	92650188011	WQ	EB (DGWC-15)	-	-	-	-	-	-	-	-	X	X
92650188	AP234-EB-3	2/3/2023	92650188010	WQ	EB (DGWC-4)	-	-	-	-	-	-	-	-	X	X
92650188	AP234-EB-4	2/6/2023	92650188021	WQ	EB (DGWC-19)	-	-	-	-	-	-	-	-	X	X
92650188	AP234-EB-5	2/7/2023	92650188029	WQ	EB (DGWC-8)	-	-	-	-	-	-	-	-	X	X
92650188	AP234-FB-3	2/3/2023	92650188012	WQ	FB (DGWC-39)	-	-	-	-	-	-	-	-	X	X
92650188	AP234-FB-4	2/6/2023	92650188024	WQ	FB (DGWC-2)	-	-	-	-	-	-	-	-	X	X
92650188	AP234-FB-5	2/7/2023	92650188030	WQ	FB (DGWC-5)	-	-	-	-	-	-	-	-	X	X
92650188	AP234-FD-2	2/3/2023	92650188013	WG	FD (DGWC-48)	-	-	-	-	-	-	-	-	X	X
92650188	AP234-FD-4	2/1/2023	92650188004	WG	FD (DGWC-42)	-	-	-	-	-	-	-	-	X	X
92650188	DGWC-10	2/2/2023	92650188005	WG	-	-	-	-	-	-	-	-	-	X	X
92650188	DGWC-11	2/6/2023	92650188015	WG	-	-	-	-	-	-	-	-	-	X	X
92650188	DGWC-12	2/6/2023	92650188016	WG	-	-	-	-	-	-	-	-	-	X	X
92650188	DGWC-13	2/1/2023	92650188002	WG	-	-	-	-	-	-	-	-	-	X	X
92650188	DGWC-14	2/1/2023	92650188003	WG	-	-	-	-	-	-	-	-	-	X	X
92650188	DGWC-15	2/2/2023	92650188006	WG	-	-	-	-	-	-	-	-	-	X	X
92650188	DGWC-17	2/6/2023	92650188017	WG	-	-	-	-	-	-	-	-	-	X	X
92650188	DGWC-19	2/6/2023	92650188018	WG	-	-	-	-	-	-	-	-	-	X	X
92650188	DGWC-2	2/6/2023	92650188014	WG	-	-	-	-	-	-	-	-	-	X	X
92650188	DGWC-20	2/7/2023	92650188027	WG	-	-	-	-	-	-	-	-	-	X	X
92650188	DGWC-21	2/7/2023	92650188028	WG	-	-	-	-	-	-	-	-	-	X	X
92650188	DGWC-22	2/6/2023	92650188019	WG	-	-	-	-	-	-	-	-	-	X	X
92650188	DGWC-23	2/6/2023	92650188020	WG	-	-	-	-	-	-	-	-	-	X	X
92650188	DGWC-4	2/3/2023	92650188008	WG	-	-	-	-	-	-	-	-	-	X	X
92650188	DGWC-42	2/1/2023	92650188001	WG	-	-	-	-	-	-	-	-	-	X	X
92650188	DGWC-47	2/3/2023	92650188007	WG	-	-	-	-	-	-	-	-	-	X	X
92650188	DGWC-48	2/3/2023	92650188009	WG	-	-	-	-	-	-	-	-	-	X	X
92650188	DGWC-5	2/7/2023	92650188025	WG	-	-	-	-	-	-	-	-	-	X	X
92650188	DGWC-8	2/7/2023	92650188026	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 (EPA 6020B)	Cations (EPA 6010D)	Anions (EPA 300.0)	Total Mercury (EPA 7470A)	TDS (SM 2540C-2011)	Alkalinity (SM 2320B)	Iron, Ferric (SM2500-Fe D)	Radium-226 (EPA 9315)	Radium-228 (EPA 9320)
92650188	DGWC-9	2/3/2023	92650188012	WG	-	-	-	-	-	-	-	-	-	X	X
92650182	B-92	1/31/2023	92650182001	WG	-	X	X	X	X	X	X	X	X	-	-
92650182	B-93	1/31/2023	92650182002	WG	-	X	X	X	X	X	X	X	X	-	-
92650182	B-98	1/31/2023	92650182003	WG	-	X	X	X	X	X	X	X	X	-	-
92650182	B-97	2/1/2023	92650182004	WG	-	X	X	X	X	X	X	X	X	-	-
92650182	B-63	2/2/2023	92650182005	WG	-	X	X	X	X	X	X	X	X	-	-
92650182	B-102D	2/2/2023	92650182006	WG	-	X	X	X	X	X	X	X	X	-	-
92650182	B-83	2/3/2023	92650182007	WG	-	X	X	X	X	X	X	X	X	-	-
92650182	B-120D	2/3/2023	92650182008	WG	-	X	X	X	X	X	X	X	X	-	-
92650182	B-101D	2/3/2023	92650182009	WG	-	X	X	X	X	X	X	X	X	-	-
92650182	B-104D	2/3/2023	92650182010	WG	-	X	X	X	X	X	X	X	X	-	-
92650182	B-77	2/6/2023	92650182011	WG	-	X	X	X	X	X	X	X	X	-	-
92650182	B-107D	2/6/2023	92650182012	WG	-	X	X	X	X	X	X	X	X	-	-
92650182	B-109D	2/6/2023	92650182013	WG	-	X	X	X	X	X	X	X	X	-	-
92650182	B-115D	2/6/2023	92650182014	WG	-	X	X	X	X	X	X	X	X	-	-
92650182	B-122D	2/6/2023	92650182015	WG	-	X	X	X	X	X	X	X	X	-	-
92650182	B-56	2/7/2023	92650182016	WG	-	X	X	X	X	X	X	X	X	-	-
92650182	B-66	2/7/2023	92650182017	WG	-	X	X	X	X	X	X	X	X	-	-
92650182	B-82	2/7/2023	92650182018	WG	-	X	X	X	X	X	X	X	X	-	-
92650182	B-88	2/7/2023	92650182019	WG	-	X	X	X	X	X	X	X	X	-	-
92650182	B-106D	2/7/2023	92650182020	WG	-	X	X	X	X	X	X	X	X	-	-
92650182	B-108D	2/7/2023	92650182021	WG	-	X	X	X	X	X	X	X	X	-	-
92650182	B-111D	2/7/2023	92650182022	WG	-	X	X	X	X	X	X	X	X	-	-
92650182	AP234-EB-6	2/7/2023	92650182023	WQ	EB (B-82)	-	X	X	X	X	X	X	X	-	-
92650182	AP234-FB-6	2/7/2023	92650182024	WQ	FB (B-111D)	-	X	X	X	X	X	X	X	-	-
92650182	AP234-FB-3	2/2/2023	92650183012	WQ	FB (DGWC-39)	-	X	X	X	X	X	X	X	-	-
92650189	B-92	1/31/2023	92650189001	WG	-	-	-	-	-	-	-	-	-	X	X
92650189	B-93	1/31/2023	92650189002	WG	-	-	-	-	-	-	-	-	-	X	X
92650189	B-98	1/31/2023	92650189003	WG	-	-	-	-	-	-	-	-	-	X	X
92650189	B-97	2/1/2023	92650189004	WG	-	-	-	-	-	-	-	-	-	X	X
92650189	B-63	2/2/2023	92650189005	WG	-	-	-	-	-	-	-	-	-	X	X
92650189	B-102D	2/3/2023	92650189006	WG	-	-	-	-	-	-	-	-	-	X	X
92650189	B-83	2/3/2023	92650189007	WG	-	-	-	-	-	-	-	-	-	X	X
92650189	B-120D	2/3/2023	92650189008	WG	-	-	-	-	-	-	-	-	-	X	X
92650189	B-101D	2/3/2023	92650189009	WG	-	-	-	-	-	-	-	-	-	X	X
92650189	B-104D	2/3/2023	92650189010	WG	-	-	-	-	-	-	-	-	-	X	X
92650189	B-77	2/6/2023	92650189011	WG	-	-	-	-	-	-	-	-	-	X	X
92650189	B-107D	2/6/2023	92650189012	WG	-	-	-	-	-	-	-	-	-	X	X
92650189	B-109D	2/6/2023	92650189013	WG	-	-	-	-	-	-	-	-	-	X	X
92650189	B-115D	2/6/2023	92650189014	WG	-	-	-	-	-	-	-	-	-	X	X
92650189	B-122D	2/6/2023	92650189015	WG	-	-	-	-	-	-	-	-	-	X	X
92650189	B-56	2/7/2023	92650189016	WG	-	-	-	-	-	-	-	-	-	X	X
92650189	B-66	2/7/2023	92650189017	WG	-	-	-	-	-	-	-	-	-	X	X
92650189	B-82	2/7/2023	92650189018	WG	-	-	-	-	-	-	-	-	-	X	X
92650189	B-88	2/7/2023	92650189019	WG	-	-	-	-	-	-	-	-	-	X	X
92650189	B-106D	2/7/2023	92650189020	WG	-	-	-	-	-	-	-	-	-	X	X
92650189	B-108D	2/7/2023	92650189021	WG	-	-	-	-	-	-	-	-	-	X	X
92650189	B-111D	2/7/2023	92650189022	WG	-	-	-	-	-	-	-	-	-	X	X
92650189	AP234-EB-6	2/7/2023	92650189023	WQ	EB (B-82)	-	-	-	-	-	-	-	-	X	X
92650189	AP234-FB-6	2/7/2023	92650189024	WQ	FB (B-111D)	-	-	-	-	-	-	-	-	X	X
92650426	B-62	2/2/2023	92650426001	WG	-	X	X	X	X	X	X	X	X	-	-
92650426	B-100	2/2/2023	92650426002	WG	-	X	X	X	X	X	X	X	X	-	-
92650426	AP234-FB-2	2/2/2023	92650426003	WQ	FB (AP234)	-	X	X	X	X	X	X	X	-	-
92650427	B-62	2/2/2023	92650427001	WG	-	-	-	-	-	-	-	-	-	X	X
92650427	B-100	2/2/2023	92650427002	WG	-	-	-	-	-	-	-	-	-	X	X
92650427	AP234-FB-2	2/2/2023	92650427003	WQ	FB (B-100)	-	-	-	-	-	-	-	-	X	X
92650184	B-123D	2/9/2023	92650184006	WG	-	X	X	X	X	X	X	X	X	-	-
92650184	B-90	1/31/2023	92650184001	WG	-	X	X	-	-	-	-	-	-	-	-
92650184	B-91	1/31/2023	92650184002	WG	-	X	X	-	-	-	-	-	-	-	-
92650184	B-95	2/1/2023	92650184004	WG	-	X	X	-	-	-	-	-	-	-	-
92650184	B-96	1/31/2023	92650184003	WG	-	X	X	-	-	-	-	-	-	-	-
92650184	B-99	2/1/2023	92650184005	WG	-	X	X	-	-	-	-	-	-	-	-
9265171	B-123D	2/9/2023	92651710001	WG	-	-	-	-	-	-	-	-	-	X	X
92661552	B-125D	4/10/2023	92661552001	WG	-	X	X	X	X	-	X	-	-	-	-

**Abbreviations:**

- SDG- Sample Delivery Group
- QC - Quality Control
- SM - Standard Method
- WS - Surface Water
- WG - Groundwater
- WQ - Water Quality
- TDS - Total dissolved solids
- FD - Field Duplicate
- EB - Equipment Blank
- FB - Field Blank

**TABLE 2**  
**Qualifier Summary Table**  
**SCS Plant McDonough Ash Pond 2 and 3/4**

<b>SDG</b>	<b>Sample Name</b>	<b>Constituent</b>	<b>New Result</b>	<b>New RL or MDC</b>	<b>Qualifier</b>	<b>Reason</b>
92650181	DGWC-9	Total alkalinity	-	-	UJ	MS and MSD recoveries are below QC criteria
92650181	AP234-FD-4	Sulfate	-	-	J-	MS and MSD recoveries are below QC criteria
92650181	DGWC-4	Potassium	-	9.5	U	Equipment blank contamination
92650181	DGWC-4	Sodium	-	53.6	U	Equipment blank contamination
92650181	DGWC-4	Calcium	-	287	U	Equipment blank contamination
92650181	DGWC-4	Magnesium	-	37	U	Equipment blank contamination
92650181	DGWC-4	Barium	-	0.034	U	Equipment blank contamination
92650181	DGWC-4	Boron	-	4.5	U	Equipment blank contamination
92650181	DGWC-4	Cobalt	0.005	-	U	Equipment blank contamination
92650181	DGWC-19	TDS	-	600	U	Equipment blank contamination
92650181	DGWC-2	Boron	-	0.38	U	Field blank contamination
92650188	DGWC-5	Radium-228	-	0.721	U	Method blank contamination
92650188	DGWC-5	Total radium	-	-	J+	Method blank contamination
92650188	DGWC-20	Radium-228	-	1.41	U	Method blank contamination
92650188	DGWC-20	Total radium	-	-	J+	Method blank contamination
92650188	234-FD-6	Radium-228	-	0.921	U	Method blank contamination
92650188	234-FD-6	Total radium	-	0.921	U	Method blank contamination
92650188	AP234-FD-2	Radium-226	-	0.276	U	Method blank contamination
92650188	AP234-FD-2	Total radium	-	-	J+	Method blank contamination
92650188	DGWC-10	Radium-226	-	0.285	U	Method blank contamination
92650188	DGWC-10	Total radium	-	-	J+	Method blank contamination
92650188	DGWC-4	Radium-226	-	0.265	U	Method blank contamination
92650188	DGWC-4	Total radium	-	-	J+	Method blank contamination
92650188	DGWC-47	Radium-226	-	0.652	U	Method blank contamination
92650188	DGWC-47	Total radium	-	-	J+	Method blank contamination
92650188	DGWC-9	Radium-226	-	0.299	U	Method blank contamination
92650188	DGWC-9	Total radium	-	0.949	U	Method blank contamination
92650182	DGWC-39	Chromium	-	0.005	U	Field blank contamination
92650189	B-108D	Radium-228	-	0.703	U	Method blank contamination
92650189	B-108D	Total radium	-	0.703	U	Method blank contamination
92650189	B-56	Radium-228	-	0.908	U	Method blank contamination
92650189	B-66	Radium-228	-	0.621	U	Method blank contamination
92650189	B-82	Radium-228	-	0.517	U	Method blank contamination
92650189	B-88	Radium-228	-	1.180	U	Method blank contamination
92650189	B-88	Total radium	-	-	J	Method blank contamination
92650189	B-106D	Radium-228	-	0.483	U	Method blank contamination
92650426	B-62	Boron	-	0.064	U	Field blank contamination
92650184	B-123D	Calcium, Dissolved	-	-	J	Dissolved concentration greater than total concentration
92650184	B-123D	Iron, Dissolved	-	-	J	Dissolved concentration greater than total concentration
92650184	B-123D	Magnesium, Dissolved	-	-	J	Dissolved concentration greater than total concentration
92650184	B-123D	Potassium, Dissolved	-	-	J	Dissolved concentration greater than total concentration
92650184	B-123D	Sodium, Dissolved	-	-	J	Dissolved concentration greater than total concentration
92650184	B-123D	Beryllium, Dissolved	-	-	J	Dissolved concentration greater than total concentration
92650184	B-123D	Boron, Dissolved	-	-	J	Dissolved concentration greater than total concentration
92650184	B-123D	Molybdenum, Dissolved	-	-	J	Dissolved concentration greater than total concentration

**Abbreviations:**

RL : Reporting limit  
MDC : Minimum detectable concentration  
SDG : Sample delivery group  
QC: Quality control  
MS: Matrix spike  
MSD: Matrix spike duplicate

**Qualifier**

U: Non-detect  
J: Estimated value  
J-: Estimated, bias Low  
J+: Estimated, bias high  
UJ: Estimated, non-detect value

**APPENDIX B**

# Laboratory Accreditation



July 14, 2022

RE: Georgia Commercial Laboratory Accreditation Rule

Stipulation Requirements for Analysis of Non-Potable Water and Solid and Chemical Materials  
Georgia state law requires any person submitting data to the GA Environmental Protection Division for regulatory purposes to stipulate that the laboratory responsible for preparing the data is approved or accredited to perform analysis of environmental samples. This stipulation must be included within each report or may be submitted in a separate document with the first report of the calendar year; alternatively, the attached scope of accreditation may be submitted in lieu of a stipulation.

The information provided below may be used to generate a stipulation for data reporting purposes:

<b>Name of Laboratory:</b>	Pace Analytical Services, LLC – Asheville, NC
<b>Name of Accrediting Agency:</b>	Commonwealth of Virginia Department of General Services Division of Consolidated Laboratory Services [Primary NELAP Accreditation]
<b>Accreditation Number:</b>	460222
<b>Scopes of Accreditation:</b>	Non-Potable Water Solid and Chemical Materials
<b>Accreditation Effective Date:</b>	June 15, 2022
<b>Accreditation Expiration Date:</b>	June 14, 2023

For additional information regarding the Georgia Commercial Laboratory Accreditation Rule, please contact the Georgia Environmental Protection Division at 404-656-4713.

Sincerely,

**Jacob Cottrell**  
Quality Manager

[O] 828.417.6052  
jacob.cottrell@pacelabs.com  
2225 Riverside Drive, Asheville, NC 28804



June 15, 2022

### Stipulation of Approval for Commercial Laboratory

According to Georgia State Law (O.C.G.A. 12-2-9) Commercial Rules for Commercial Laboratory Accreditation, any person submitting data to EPD prepared by a commercial laboratory shall stipulate that the laboratory is approved (Chapter 391-3-26-.05). The following information is provided as requested.

Laboratory	<b>Pace Analytical Services, LLC</b> 9800 Kinsey Avenue, Suite 100 Huntersville, NC 28078 Phone: 704.875.9092
Accredited By:	Commonwealth of Virginia, Department of General Services: Accrediting NELAP Authority
Accreditation ID:	Laboratory ID#: 460221
Scope:	Clean Water Act - Extractable Organics, Pesticides, PCB's, Volatile Organics  RCRA/CERCLA - Extractable Organics, Pesticides, PCB's, Volatile Organics
Effective:	June 15, 2022
Expires:	June 14, 2023

Any question regarding this stipulation of approval may be directed to Pace Analytical at 704.875.9092. Thank you for your business and please do not hesitate to contact us if we can be of further assistance.

Sincerely,

**Ross Simmons**

Quality Assurance Manager

[O] 704.875.9092 [F] 704.875.9091  
9800 Kinsey Avenue, Suite 100, Huntersville, NC 28078

PACELABS.COM



Pace Analytical Services, LLC  
110 Technology Parkway  
Peachtree Corners, GA 30092

Phone: 770.734.4200  
Fax: 770.734.4201  
www.pacelabs.com

### Stipulation of Approval for Commercial Environmental Laboratories

Pursuant to the *Rules and Regulations of the State of Georgia* (O.C.G.A. 12-2-9) and *Rule 391-3-26.05* for “Commercial Environmental Laboratories”, any person submitting data prepared by a commercial analytical laboratory to the Division for regulatory purposes shall stipulate that the laboratory is approved.

The stipulations for which Pace-Atlanta is approved, is as follows:

<b>Laboratory:</b>	<b>Pace Analytical Services, LLC – Atlanta GA</b> 110 Technology Parkway Peachtree Corners, GA 30092  Phone: (770) 734-4200 Fax: (770) 734-4201
<b>Accredited By:</b>	<u>Authority</u> Florida Department of Health (FL - DOH)  <u>Program</u> Florida Environmental Laboratory Certification Program (TNI/NELAP)
<b>Accreditation ID:</b>	E87315
<b>Scope of Accreditation:</b>	<u>Non-Potable Water (NPW)</u> -General Chemistry (Wet Chemistry) -Metals -Microbiology  <u>Solid and Chemical Materials (SCM)</u> -General Chemistry -Metals - Microbiology
<b>Effective Dates:</b>	July 1, 2022 – June 30, 2023

Any question regarding this stipulation of approval may be directed to Pace-Atlanta at (770) 734-4200. Thank you for your business and please do not hesitate to contact us if we can be of further assistance.

Sincerely,

Ross Simmons  
Quality Manager – Atlanta Laboratory  
Pace Analytical Services, LLC



# GEORGIA

DEPARTMENT OF NATURAL RESOURCES

## ENVIRONMENTAL PROTECTION DIVISION

**Richard E. Dunn, Director**

**Watershed Protection Branch**  
2 Martin Luther King, Jr. Drive  
Suite 1152, East Tower  
Atlanta, Georgia 30334  
404-463-1511

Mr. William Billings, Laboratory Director  
Pace Analytical Services, LLC - Pittsburgh  
1638 Roseytown Road, Suites 2, 3 and 4  
Greensburg, PA 15601

June 14, 2022

RE: Certification by Reciprocity  
Pace Analytical Services, Inc. - Pittsburgh  
Georgia ID #C040

Dear Mr. Billings:

The Georgia Department of Natural Resources, Environmental Protection Division (EPD) is in receipt of all required data necessary to fulfill your laboratory's request for Certification by Reciprocity in Georgia for the analysis of the parameters listed in the attached certificate. Therefore, in accordance with the Georgia Safe Drinking Water Act of 1977 (Sections 12-5-170 through 12-5-193, O.C.G.A.) and the Rules for Safe Drinking Water (Chapter 391-3-5), this certification is valid until March 31, 2023. This certificate is contingent upon continued Certification by the Commonwealth of Pennsylvania's Department of Environmental Protection and is non-transferable. This certificate is also contingent upon continued acceptable semi-annual Proficiency Testing results.

If Pace Analytical Services, LLC – Pittsburgh's certification status is downgraded for any analyte/method by your Primary Accrediting Agency, the GA Certification Program must be notified. Any downgrade will result in the withdrawal of reciprocity for that analyte.

Prior to the expiration of this certification, please contact your accrediting/certifying authority and request that the following information be forwarded to me at [lynne.grubb@dnr.ga.gov](mailto:lynne.grubb@dnr.ga.gov).

1. Copies of the most current on-site report, and proposed and accepted corrective actions
2. Copies of the Certificate and scope of accreditation listing analytes

For additional information please feel free to contact Lynne Grubb at 470-604-9528.

Sincerely,

Lynne Grubb  
Laboratory Certification Officer  
Drinking Water Compliance Unit

Sean Earley  
Program Manager  
Drinking Water Compliance Unit

PACE ANALYTICAL SERVICES, INC. - PITTSBURGH (GA LAB ID# C040)  
1638 Roseytown Road, Suites 2,3 and 4, Greensburg, PA 15601  
Effective April 1, 2022 - March 31, 2023

ANALYTE	CERTIFIED BY	METHOD
RADIONUCLIDES		
Gross Alpha	PA DEP	900.0, SM 7110C
Gross Beta	PA DEP	900.0
Radium 226	PA DEP	903.0, 903.1
Radium 228	PA DEP	904.0
Uranium	PA DEP	ASTM D5174-97



**APPENDIX C**

**Well Condition Inspection  
Forms and Well Repair Memo**

**APPENDIX C**

Well Condition Inspection Forms  
September 2022

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: DGWA-53

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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: Access overgrown vegetation

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: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |   |   |   |
|---|---|---|
| <b>A</b> Is the well visible and accessible?  | X |   |
| <b>B</b> Is the well properly identified with correct well ID?  | X |   |
| <b>C</b> Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |  |   |  |
|--|---|--|
| <b>A</b> Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |  |   |  |
|--|---|--|
| <b>A</b> Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |  |   |  |
|--|---|--|
| <b>A</b> Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> 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

- |   |   |   |
|---|---|---|
| <b>A</b> Does water recharge adequately when purged?  | X |   |
| <b>B</b> If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| <b>C</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: DGWA-71

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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: Overgrown vegetation

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: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Is the well visible and accessible?  | X |   |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |   |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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: DGWC-4

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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: DGWC-5

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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: Overgrown vegetation

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: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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: Overgrown vegetation

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: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Is the well visible and accessible?  | X |   |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |   |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Does water recharge adequately when purged?  | X |   |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? |   | X |
| <b>C</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: DGWC-10

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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: DGWC-11

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Is the well visible and accessible?  | X |   |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |   |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Does water recharge adequately when purged?  | X |   |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| <b>C</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: DGWC-12

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Is the well visible and accessible?  | X |   |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |   |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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: DGWC-13

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Is the well visible and accessible?  | X |   |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |   |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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: DGWC-14

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Is the well visible and accessible?  | X |   |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |   |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Does water recharge adequately when purged?  | X |   |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| <b>C</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: DGWC-15

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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: DGWC-17

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Is the well visible and accessible?  | X |   |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |   |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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: DGWC-19

Date: 9/6/2022

	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?<br>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: DGWC-20

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Is the well visible and accessible?  | X |   |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |   |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Does water recharge adequately when purged?  | X |   |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| <b>C</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: DGWC-21

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Is the well visible and accessible?  | X |   |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |   |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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: DGWC-22

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Is the well visible and accessible?  | X |   |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |   |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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: DGWC-23

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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: DGWC-42

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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: DGWC-47

Date: 9/6/2022

	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?<br>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: DGWC-48

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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-3

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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-6

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Is the well visible and accessible?  | X |   |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |   |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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-7

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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: Bollard missing

Signature and Seal of PE/PG responsible for inspection

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-16

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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-18

Date: 9/6/2022

	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?<br>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-24

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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-25

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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-26

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Is the well visible and accessible?  | X |   |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |   |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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-28

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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-29

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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-31

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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-41

Date: 9/6/2022

	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?<br>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-50

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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-51

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Is the well visible and accessible?  | X |   |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |   |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Does water recharge adequately when purged?  | X |   |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| <b>C</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-52

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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-54

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Is the well visible and accessible?  | X |   |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |   |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Does water recharge adequately when purged?  | X |   |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| <b>C</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-55

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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-56

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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-57

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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-58

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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-59

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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: Overgrown vegetation

Signature and Seal of PE/PG responsible for inspection \_\_\_\_\_

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-60

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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-61

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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-62

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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-63

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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: Damaged manhole lid

Signature and Seal of PE/PG responsible for inspection

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-64

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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: Well lock and bar destroyed

Signature and Seal of PE/PG responsible for inspection \_\_\_\_\_

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-65

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Is the well visible and accessible?  | X |   |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |   |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |          |   |   |   |
|----------|---|---|---|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          |   | X |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |   |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |   |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |   |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |   |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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:

	Broken bolt holes
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Signature and Seal of PE/PG responsible for inspection

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# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-66

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Is the well visible and accessible?  | X |   |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |   |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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-68

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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-72

Date: 9/6/2022

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?<br>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-73

Date: 9/6/2022

	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?<br>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-74

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Is the well visible and accessible?  | X |   |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |   |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Does water recharge adequately when purged?  | X |   |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| <b>C</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-76

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Is the well visible and accessible?  | X |   |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |   |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Does water recharge adequately when purged?  | X |   |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| <b>C</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-77

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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-78

Date: 9/6/2022

	Yes	No	N/A
<u>1) Location/Identification</u>			
<b>A</b> Is the well visible and accessible?	X		
<b>B</b> Is the well properly identified with correct well ID?	X		
<b>C</b> Is the well in a high traffic area and does the well require protection from traffic?		X	
<b>D</b> Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
<u>2) Protective Casing</u>			
<b>A</b> Is the protective casing free from apparent damage and able to be secured?	X		
<b>B</b> Is the casing free of degradation or deterioration?	X		
<b>C</b> Does the casing have a functioning weep hole?	X		
<b>D</b> Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
<b>E</b> Is the well locked and is the lock in good condition?	X		
<u>3) Surface Pad</u>			
<b>A</b> Is the well pad in good condition (not cracked/broken)?	X		
<b>B</b> Is the well pad sloped away from the protective casing?	X		
<b>C</b> Is the well pad in complete contact with the ground surface and stable?	X		
<b>D</b> Is the well pad in complete contact with the protective casing?	X		
<b>E</b> Is the pad surface clean (not covered with sediment or debris)?		X	
<u>4) Internal Casing</u>			
<b>A</b> Does the cap prevent entry of foreign material into the well?	X		
<b>B</b> Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
<b>C</b> Is the well properly vented for equilibration of air pressure?	X		
<b>D</b> Is the survey point clearly marked on the inner casing?	X		
<b>E</b> Is the depth of the well consistent with the original well log?	X		
<b>F</b> 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		
<u>5) Sampling: Groundwater Wells Only</u>			
<b>A</b> 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>B</b> Does the well require redevelopment (low flow/turbidity)?		X	
<b>6)</b> Based on professional judgement, is the well construction / location appropriate to <b>1)</b> achieve the objectives of the Groundwater Monitoring Program and <b>2)</b> comply with the applicable regulatory requirements?	X		
<u>7) Corrective actions as needed, by date:</u>	Overgrown vegetation		
<u>Signature and Seal of PE/PG responsible for inspection</u>			

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-79

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Is the well visible and accessible?  | X |   |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |   |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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-80

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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: Two bollards missing

Signature and Seal of PE/PG responsible for inspection

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-81

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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-82

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Is the well visible and accessible?  | X |   |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |   |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |   |
|----------|---|---|---|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |   |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |   |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  |   | X |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |   |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |   |
| <b>F</b> | 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

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Does water recharge adequately when purged?  | X |   |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| <b>C</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: No weep hole

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: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Is the well visible and accessible?  | X |   |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |   |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Does water recharge adequately when purged?  | X |   |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| <b>C</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-85

Date: 9/6/2022

	Yes	No	N/A
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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?<br>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-86

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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-87

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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: Overgrown vegetation

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: 9/6/2022

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?<br>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: Overgrown vegetation

Signature and Seal of PE/PG responsible for inspection

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-89

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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: Broken bolt hole

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: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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: Overgrown vegetation

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: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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: Flooded annulus

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: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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-93

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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-94

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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: Need flat well cap, 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-95

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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: 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: 9/6/2022

	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?<br>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 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			
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Signature and Seal of PE/PG responsible for inspection

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# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-97

Date: 9/6/2022

	Yes	No	N/A
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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?<br>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 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: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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: 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: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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-100

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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-101D

Date: 9/6/2022

	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?<br>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-102D

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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-103D

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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-104D

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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-105D

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Is the well visible and accessible?  | X |   |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |   |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |   |
|----------|---|---|---|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 |   | X |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |   |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |   |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |   |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |   |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Does water recharge adequately when purged?  | X |   |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| <b>C</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: Two bollards fallen, overgrown

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: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Is the well visible and accessible?  | X |   |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |   |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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-109D

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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-110D

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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-111D

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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: Overgrown vegetation

Signature and Seal of PE/PG responsible for inspection \_\_\_\_\_

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-112D

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Is the well visible and accessible?  | X |   |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |   |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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-113D

Date: 9/6/2022

	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?<br>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: Wash out around well pad

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: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Is the well visible and accessible?  | X |   |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |   |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Does water recharge adequately when purged?  | X |   |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| <b>C</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-116D

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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-117D

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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: Overgrown vegetation

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: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Is the well visible and accessible?  | X |   |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |   |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Does water recharge adequately when purged?  | X |   |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| <b>C</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-119D

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Is the well visible and accessible?  | X |   |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |   |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Does water recharge adequately when purged?  | X |   |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| <b>C</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-120D

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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-122D

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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: Cracked well pad

Signature and Seal of PE/PG responsible for inspection

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-123D

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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: DW-1

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Is the well visible and accessible?  | X |   |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |   |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Does water recharge adequately when purged?  | X |   |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| <b>C</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: DW-2

Date: 9/6/2022

	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: DW-3

Date: 9/6/2022

	Yes	No	N/A
<u>1) Location/Identification</u>			
<b>A</b> Is the well visible and accessible?	X		
<b>B</b> Is the well properly identified with correct well ID?	X		
<b>C</b> Is the well in a high traffic area and does the well require protection from traffic?		X	
<b>D</b> Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
<u>2) Protective Casing</u>			
<b>A</b> Is the protective casing free from apparent damage and able to be secured?	X		
<b>B</b> Is the casing free of degradation or deterioration?	X		
<b>C</b> Does the casing have a functioning weep hole?	X		
<b>D</b> Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
<b>E</b> Is the well locked and is the lock in good condition?	X		
<u>3) Surface Pad</u>			
<b>A</b> Is the well pad in good condition (not cracked/broken)?	X		
<b>B</b> Is the well pad sloped away from the protective casing?	X		
<b>C</b> Is the well pad in complete contact with the ground surface and stable?	X		
<b>D</b> Is the well pad in complete contact with the protective casing?	X		
<b>E</b> Is the pad surface clean (not covered with sediment or debris)?	X		
<u>4) Internal Casing</u>			
<b>A</b> Does the cap prevent entry of foreign material into the well?	X		
<b>B</b> Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
<b>C</b> Is the well properly vented for equilibration of air pressure?	X		
<b>D</b> Is the survey point clearly marked on the inner casing?	X		
<b>E</b> Is the depth of the well consistent with the original well log?	X		
<b>F</b> 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		
<u>5) Sampling: Groundwater Wells Only</u>			
<b>A</b> Does water recharge adequately when purged?	X		
<b>B</b> If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
<b>C</b> Does the well require redevelopment (low flow/turbidity)?		X	
<b>6</b> Based on professional judgement, is the well construction / location appropriate to <b>1</b> ) achieve the objectives of the Groundwater Monitoring Program and <b>2</b> ) comply with the applicable regulatory requirements?	X		
<u>7) Corrective actions as needed, by date:</u>			
<u>Signature and Seal of PE/PG responsible for inspection</u>			

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: DW-4

Date: 9/6/2022

	Yes	No	N/A
<u>1) Location/Identification</u>			
<b>A</b> Is the well visible and accessible?	X		
<b>B</b> Is the well properly identified with correct well ID?	X		
<b>C</b> Is the well in a high traffic area and does the well require protection from traffic?		X	
<b>D</b> Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	X		
<u>2) Protective Casing</u>			
<b>A</b> Is the protective casing free from apparent damage and able to be secured?	X		
<b>B</b> Is the casing free of degradation or deterioration?	X		
<b>C</b> Does the casing have a functioning weep hole?	X		
<b>D</b> Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand?	X		
<b>E</b> Is the well locked and is the lock in good condition?	X		
<u>3) Surface Pad</u>			
<b>A</b> Is the well pad in good condition (not cracked/broken)?	X		
<b>B</b> Is the well pad sloped away from the protective casing?	X		
<b>C</b> Is the well pad in complete contact with the ground surface and stable?	X		
<b>D</b> Is the well pad in complete contact with the protective casing?	X		
<b>E</b> Is the pad surface clean (not covered with sediment or debris)?	X		
<u>4) Internal Casing</u>			
<b>A</b> Does the cap prevent entry of foreign material into the well?	X		
<b>B</b> Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?	X		
<b>C</b> Is the well properly vented for equilibration of air pressure?	X		
<b>D</b> Is the survey point clearly marked on the inner casing?	X		
<b>E</b> Is the depth of the well consistent with the original well log?	X		
<b>F</b> 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		
<u>5) Sampling: Groundwater Wells Only</u>			
<b>A</b> Does water recharge adequately when purged?	X		
<b>B</b> If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility?	X		
<b>C</b> Does the well require redevelopment (low flow/turbidity)?		X	
<b>6</b> Based on professional judgement, is the well construction / location appropriate to <b>1</b> ) achieve the objectives of the Groundwater Monitoring Program and <b>2</b> ) comply with the applicable regulatory requirements?	X		
<u>7) Corrective actions as needed, by date:</u>			
<u>Signature and Seal of PE/PG responsible for inspection</u>			

# Surface Water Monitoring Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: SW-1

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Is the well visible and accessible?  | X |   |
| <b>B</b> | Is the well properly identified with correct well ID?  |   | X |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) |   | X |

2) Protective Casing

- |          |   |  |   |
|----------|---|--|---|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          |  | X |
| <b>B</b> | Is the casing free of degradation or deterioration?   |  | X |
| <b>C</b> | Does the casing have a functioning weep hole?   |  | X |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? |  | X |
| <b>E</b> | Is the well locked and is the lock in good condition?   |  | X |

3) Surface Pad

- |          |   |  |   |
|----------|---|--|---|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 |  | X |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 |  | X |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? |  | X |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         |  | X |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         |  | X |

4) Internal Casing

- |          |   |  |   |
|----------|---|--|---|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   |  | X |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  |  | X |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  |  | X |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   |  | X |
| <b>E</b> | Is the depth of the well consistent with the original well log?   |  | X |
| <b>F</b> | 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

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Does water recharge adequately when purged?  | X |   |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? |   | X |
| <b>C</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

# Surface Water Monitoring Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: SW-2

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Is the well visible and accessible?  | X |   |
| <b>B</b> | Is the well properly identified with correct well ID?  |   | X |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) |   | X |

2) Protective Casing

- |          |   |  |   |
|----------|---|--|---|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          |  | X |
| <b>B</b> | Is the casing free of degradation or deterioration?   |  | X |
| <b>C</b> | Does the casing have a functioning weep hole?   |  | X |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? |  | X |
| <b>E</b> | Is the well locked and is the lock in good condition?   |  | X |

3) Surface Pad

- |          |   |  |   |
|----------|---|--|---|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 |  | X |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 |  | X |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? |  | X |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         |  | X |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         |  | X |

4) Internal Casing

- |          |   |  |   |
|----------|---|--|---|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   |  | X |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  |  | X |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  |  | X |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   |  | X |
| <b>E</b> | Is the depth of the well consistent with the original well log?   |  | X |
| <b>F</b> | 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

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Does water recharge adequately when purged?  | X |   |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? |   | X |
| <b>C</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

# Surface Water Monitoring Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: SW-3

Date: 9/6/2022

	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? Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? |  | X |   |
| B Is the well properly vented for equilibration of air pressure?   |  | X |   |
| C Is the survey point clearly marked on the inner casing?  |  | X |   |
| D Is the depth of the well consistent with the original well log?  |  | X |   |
| E 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

# Surface Water Monitoring Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: SW-4

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |   |   |   |
|---|---|---|
| <b>A</b> Is the well visible and accessible?  | X |   |
| <b>B</b> Is the well properly identified with correct well ID?  |   | X |
| <b>C</b> Is the well in a high traffic area and does the well require protection from traffic?                              | X |   |
| <b>D</b> Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) |   | X |

2) Protective Casing

- |  |  |   |
|--|--|---|
| <b>A</b> Is the protective casing free from apparent damage and able to be secured?                          |  | X |
| <b>B</b> Is the casing free of degradation or deterioration?   |  | X |
| <b>C</b> Does the casing have a functioning weep hole?   |  | X |
| <b>D</b> Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? |  | X |
| <b>E</b> Is the well locked and is the lock in good condition?   |  | X |

3) Surface Pad

- |  |  |   |
|--|--|---|
| <b>A</b> Is the well pad in good condition (not cracked/broken)?                 |  | X |
| <b>B</b> Is the well pad sloped away from the protective casing?                 |  | X |
| <b>C</b> Is the well pad in complete contact with the ground surface and stable? |  | X |
| <b>D</b> Is the well pad in complete contact with the protective casing?         |  | X |
| <b>E</b> Is the pad surface clean (not covered with sediment or debris)?         |  | X |

4) Internal Casing

- |  |  |   |
|--|--|---|
| <b>A</b> Does the cap prevent entry of foreign material into the well?   |  | X |
| <b>B</b> Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  |  | X |
| <b>C</b> Is the well properly vented for equilibration of air pressure?  |  | X |
| <b>D</b> Is the survey point clearly marked on the inner casing?   |  | X |
| <b>E</b> Is the depth of the well consistent with the original well log?   |  | X |
| <b>F</b> 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

- |   |   |   |
|---|---|---|
| <b>A</b> Does water recharge adequately when purged?  | X |   |
| <b>B</b> If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? |   | X |
| <b>C</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:

Overgrown vegetation		
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Signature and Seal of PE/PG responsible for inspection

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# Surface Water Monitoring Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: WT-1

Date: 9/6/2022

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? Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? |  | X |
| B Is the well properly vented for equilibration of air pressure?   |  | X |
| C Is the survey point clearly marked on the inner casing?  |  | X |
| D Is the depth of the well consistent with the original well log?  |  | X |
| E 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

# Surface Water Monitoring Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: WT-2

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Is the well visible and accessible?  | X |   |
| <b>B</b> | Is the well properly identified with correct well ID?  |   | X |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) |   | X |

2) Protective Casing

- |          |   |  |   |
|----------|---|--|---|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          |  | X |
| <b>B</b> | Is the casing free of degradation or deterioration?   |  | X |
| <b>C</b> | Does the casing have a functioning weep hole?   |  | X |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? |  | X |
| <b>E</b> | Is the well locked and is the lock in good condition?   |  | X |

3) Surface Pad

- |          |   |  |   |
|----------|---|--|---|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 |  | X |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 |  | X |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? |  | X |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         |  | X |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         |  | X |

4) Internal Casing

- |          |   |  |   |
|----------|---|--|---|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   |  | X |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  |  | X |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  |  | X |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   |  | X |
| <b>E</b> | Is the depth of the well consistent with the original well log?   |  | X |
| <b>F</b> | 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

- |          |  |  |   |
|----------|--|--|---|
| <b>A</b> | Does water recharge adequately when purged?  |  | X |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? |  | X |
| <b>C</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



# Surface Water Monitoring Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: WT-3

Date: 9/6/2022

	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?<br>Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? |  | X |  |
| B Is the well properly vented for equilibration of air pressure?  |  | X |  |
| C Is the survey point clearly marked on the inner casing?   |  | X |  |
| D Is the depth of the well consistent with the original well log?   |  | X |  |
| E 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?<br>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

# Surface Water Monitoring Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: WT-4

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |   |   |   |
|---|---|---|
| <b>A</b> Is the well visible and accessible?  | X |   |
| <b>B</b> Is the well properly identified with correct well ID?  |   | X |
| <b>C</b> Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) |   | X |

2) Protective Casing

- |  |  |   |
|--|--|---|
| <b>A</b> Is the protective casing free from apparent damage and able to be secured?                          |  | X |
| <b>B</b> Is the casing free of degradation or deterioration?   |  | X |
| <b>C</b> Does the casing have a functioning weep hole?   |  | X |
| <b>D</b> Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? |  | X |
| <b>E</b> Is the well locked and is the lock in good condition?   |  | X |

3) Surface Pad

- |  |  |   |
|--|--|---|
| <b>A</b> Is the well pad in good condition (not cracked/broken)?                 |  | X |
| <b>B</b> Is the well pad sloped away from the protective casing?                 |  | X |
| <b>C</b> Is the well pad in complete contact with the ground surface and stable? |  | X |
| <b>D</b> Is the well pad in complete contact with the protective casing?         |  | X |
| <b>E</b> Is the pad surface clean (not covered with sediment or debris)?         |  | X |

4) Internal Casing

- |   |  |   |
|---|--|---|
| <b>A</b> Does the cap prevent entry of foreign material into the well? Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? |  | X |
| <b>B</b> Is the well properly vented for equilibration of air pressure?   |  | X |
| <b>C</b> Is the survey point clearly marked on the inner casing?  |  | X |
| <b>D</b> Is the depth of the well consistent with the original well log?  |  | X |
| <b>E</b> 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

- |   |  |   |
|---|--|---|
| <b>A</b> 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>B</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

# Surface Water Monitoring Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: WT-5

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |   |   |   |
|---|---|---|
| <b>A</b> Is the well visible and accessible?  | X |   |
| <b>B</b> Is the well properly identified with correct well ID?  |   | X |
| <b>C</b> Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) |   | X |

2) Protective Casing

- |  |  |   |
|--|--|---|
| <b>A</b> Is the protective casing free from apparent damage and able to be secured?                          |  | X |
| <b>B</b> Is the casing free of degradation or deterioration?   |  | X |
| <b>C</b> Does the casing have a functioning weep hole?   |  | X |
| <b>D</b> Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? |  | X |
| <b>E</b> Is the well locked and is the lock in good condition?   |  | X |

3) Surface Pad

- |  |  |   |
|--|--|---|
| <b>A</b> Is the well pad in good condition (not cracked/broken)?                 |  | X |
| <b>B</b> Is the well pad sloped away from the protective casing?                 |  | X |
| <b>C</b> Is the well pad in complete contact with the ground surface and stable? |  | X |
| <b>D</b> Is the well pad in complete contact with the protective casing?         |  | X |
| <b>E</b> Is the pad surface clean (not covered with sediment or debris)?         |  | X |

4) Internal Casing

- |  |  |   |
|--|--|---|
| <b>A</b> Does the cap prevent entry of foreign material into the well?   |  | X |
| <b>B</b> Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  |  | X |
| <b>C</b> Is the well properly vented for equilibration of air pressure?  |  | X |
| <b>D</b> Is the survey point clearly marked on the inner casing?   |  | X |
| <b>E</b> Is the depth of the well consistent with the original well log?   |  | X |
| <b>F</b> 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

- |   |  |   |
|---|--|---|
| <b>A</b> Does water recharge adequately when purged?  |  | X |
| <b>B</b> If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? |  | X |
| <b>C</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

# Surface Water Monitoring Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: WT-6

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |   |   |   |
|---|---|---|
| <b>A</b> Is the well visible and accessible?  | X |   |
| <b>B</b> Is the well properly identified with correct well ID?  |   | X |
| <b>C</b> Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) |   | X |

2) Protective Casing

- |  |  |   |
|--|--|---|
| <b>A</b> Is the protective casing free from apparent damage and able to be secured?                          |  | X |
| <b>B</b> Is the casing free of degradation or deterioration?   |  | X |
| <b>C</b> Does the casing have a functioning weep hole?   |  | X |
| <b>D</b> Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? |  | X |
| <b>E</b> Is the well locked and is the lock in good condition?   |  | X |

3) Surface Pad

- |  |  |   |
|--|--|---|
| <b>A</b> Is the well pad in good condition (not cracked/broken)?                 |  | X |
| <b>B</b> Is the well pad sloped away from the protective casing?                 |  | X |
| <b>C</b> Is the well pad in complete contact with the ground surface and stable? |  | X |
| <b>D</b> Is the well pad in complete contact with the protective casing?         |  | X |
| <b>E</b> Is the pad surface clean (not covered with sediment or debris)?         |  | X |

4) Internal Casing

- |  |  |   |
|--|--|---|
| <b>A</b> Does the cap prevent entry of foreign material into the well?   |  | X |
| <b>B</b> Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  |  | X |
| <b>C</b> Is the well properly vented for equilibration of air pressure?  |  | X |
| <b>D</b> Is the survey point clearly marked on the inner casing?   |  | X |
| <b>E</b> Is the depth of the well consistent with the original well log?   |  | X |
| <b>F</b> 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

- |   |  |   |
|---|--|---|
| <b>A</b> Does water recharge adequately when purged?  |  | X |
| <b>B</b> If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? |  | X |
| <b>C</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

# Surface Water Monitoring Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: WT-7

Date: 9/6/2022

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |   |   |   |
|---|---|---|
| <b>A</b> Is the well visible and accessible?  | X |   |
| <b>B</b> Is the well properly identified with correct well ID?  |   | X |
| <b>C</b> Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) |   | X |

2) Protective Casing

- |  |  |   |
|--|--|---|
| <b>A</b> Is the protective casing free from apparent damage and able to be secured?                          |  | X |
| <b>B</b> Is the casing free of degradation or deterioration?   |  | X |
| <b>C</b> Does the casing have a functioning weep hole?   |  | X |
| <b>D</b> Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? |  | X |
| <b>E</b> Is the well locked and is the lock in good condition?   |  | X |

3) Surface Pad

- |  |  |   |
|--|--|---|
| <b>A</b> Is the well pad in good condition (not cracked/broken)?                 |  | X |
| <b>B</b> Is the well pad sloped away from the protective casing?                 |  | X |
| <b>C</b> Is the well pad in complete contact with the ground surface and stable? |  | X |
| <b>D</b> Is the well pad in complete contact with the protective casing?         |  | X |
| <b>E</b> Is the pad surface clean (not covered with sediment or debris)?         |  | X |

4) Internal Casing

- |  |  |   |
|--|--|---|
| <b>A</b> Does the cap prevent entry of foreign material into the well?   |  | X |
| <b>B</b> Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  |  | X |
| <b>C</b> Is the well properly vented for equilibration of air pressure?  |  | X |
| <b>D</b> Is the survey point clearly marked on the inner casing?   |  | X |
| <b>E</b> Is the depth of the well consistent with the original well log?   |  | X |
| <b>F</b> 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

- |   |  |   |
|---|--|---|
| <b>A</b> Does water recharge adequately when purged?  |  | X |
| <b>B</b> If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? |  | X |
| <b>C</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

# Surface Water Monitoring Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: ET-1

Date: 9/6/2022

	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?<br>Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? |  | X |  |
| B Is the well properly vented for equilibration of air pressure?  |  | X |  |
| C Is the survey point clearly marked on the inner casing?   |  | X |  |
| D Is the depth of the well consistent with the original well log?   |  | X |  |
| E 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?<br>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

**APPENDIX C**

**Well Condition Inspection  
Forms February 2023**

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: DGWA-53

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection



# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: DGWA-70A

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: DGWA-71

Date: 1/31/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: DGWC-37

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: DGWC-38

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: DGWC-39

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: DGWC-40

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: DGWC-67

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: DGWC-68A

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection



# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: DGWC-69

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: DGWC-121

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: DGWC-2

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: DGWC-4

Date: 1/31/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: DGWC-5

Date: 1/31/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date: \_\_\_\_\_

Signature and Seal of PE/PG responsible for inspection \_\_\_\_\_

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: DGWC-8

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: DGWC-9

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |   |
|---|---|---|
| A Does the cap prevent entry of foreign material into the well?   |   | X |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |   |
| C Is the well properly vented for equilibration of air pressure?  | X |   |
| D Is the survey point clearly marked on the inner casing?   | X |   |
| E Is the depth of the well consistent with the original well log?   | X |   |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |   |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? |   | X |
| C Does the well require redevelopment (low flow/turbidity)?  | X |   |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?

X

7) Corrective actions as needed, by date:

Well cap needs replacement

Signature and Seal of PE/PG responsible for inspection

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# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: DGWC-10

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date: \_\_\_\_\_

Signature and Seal of PE/PG responsible for inspection \_\_\_\_\_



# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: DGWC-11

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date: \_\_\_\_\_

Signature and Seal of PE/PG responsible for inspection \_\_\_\_\_

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: DGWC-12

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: DGWC-13

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: DGWC-14

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date: \_\_\_\_\_

Signature and Seal of PE/PG responsible for inspection \_\_\_\_\_

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: DGWC-15

Date: 1/31/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: DGWC-17

Date: 1/31/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: DGWC-19

Date: 1/31/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: DGWC-20

Date: 1/31/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection



# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: DGWC-21

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |   |
|---|---|---|
| A Is the well pad in good condition (not cracked/broken)?                 | X |   |
| B Is the well pad sloped away from the protective casing?                 | X |   |
| C Is the well pad in complete contact with the ground surface and stable? | X |   |
| D Is the well pad in complete contact with the protective casing?         | X |   |
| E Is the pad surface clean (not covered with sediment or debris)?         |   | X |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?

X

7) Corrective actions as needed, by date:

Remove ant mound on pad

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: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date: \_\_\_\_\_

Signature and Seal of PE/PG responsible for inspection \_\_\_\_\_

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: DGWC-23

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date: \_\_\_\_\_

Signature and Seal of PE/PG responsible for inspection \_\_\_\_\_

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: DGWC-42

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |   |
|---|---|---|
| A Is the well pad in good condition (not cracked/broken)?                 | X |   |
| B Is the well pad sloped away from the protective casing?                 | X |   |
| C Is the well pad in complete contact with the ground surface and stable? | X |   |
| D Is the well pad in complete contact with the protective casing?         | X |   |
| E Is the pad surface clean (not covered with sediment or debris)?         |   | X |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?

X

7) Corrective actions as needed, by date:

Remove ant mound on pad

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: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |   |   |   |
|---|---|---|
| <b>A</b> Is the well visible and accessible?  | X |   |
| <b>B</b> Is the well properly identified with correct well ID?  | X |   |
| <b>C</b> Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |  |   |  |
|--|---|--|
| <b>A</b> Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |  |   |  |
|--|---|--|
| <b>A</b> Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |  |   |  |
|--|---|--|
| <b>A</b> Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> 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

- |   |   |   |
|---|---|---|
| <b>A</b> Does water recharge adequately when purged?  | X |   |
| <b>B</b> If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| <b>C</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: DGWC-48

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date: \_\_\_\_\_

Signature and Seal of PE/PG responsible for inspection \_\_\_\_\_

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-3

Date: 1/31/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-6

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection



# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-7

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-16

Date: 1/31/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date: \_\_\_\_\_

Signature and Seal of PE/PG responsible for inspection \_\_\_\_\_

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-18

Date: 1/31/2023

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- |  |   |   |  |
|--|---|---|--|
| A Is the well visible and accessible?  | X |   |  |
| B Is the well properly identified with correct well ID?  | X |   |  |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |  |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |  |

2) Protective Casing

- |   |   |  |  |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |  |
| B Is the casing free of degradation or deterioration?   | X |  |  |
| C Does the casing have a functioning weep hole?   | X |  |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |  |
| E Is the well locked and is the lock in good condition?   | X |  |  |

3) Surface Pad

- |   |   |  |  |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |  |

4) Internal Casing

- |   |   |  |  |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |  |
| E Is the depth of the well consistent with the original well log?   | X |  |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |  |
|--|---|---|--|
| A Does water recharge adequately when purged?  | X |   |  |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |  |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |  |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date: \_\_\_\_\_

Signature and Seal of PE/PG responsible for inspection \_\_\_\_\_

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-24

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |   |   |   |
|---|---|---|
| <b>A</b> Is the well visible and accessible?  | X |   |
| <b>B</b> Is the well properly identified with correct well ID?  | X |   |
| <b>C</b> Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |  |   |  |
|--|---|--|
| <b>A</b> Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |  |   |  |
|--|---|--|
| <b>A</b> Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |  |   |  |
|--|---|--|
| <b>A</b> Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> 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

- |   |   |   |
|---|---|---|
| <b>A</b> Does water recharge adequately when purged?  | X |   |
| <b>B</b> If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| <b>C</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-25

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-26

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-28

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-29

Date: 1/31/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date: \_\_\_\_\_

Signature and Seal of PE/PG responsible for inspection \_\_\_\_\_



# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-31

Date: 1/31/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |   |   |
|---|---|
| <b>A</b> Is the well visible and accessible?  | X |
| <b>B</b> Is the well properly identified with correct well ID?  | X |
| <b>C</b> Is the well in a high traffic area and does the well require protection from traffic?                              | X |
| <b>D</b> Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |

2) Protective Casing

- |  |   |
|--|---|
| <b>A</b> Is the protective casing free from apparent damage and able to be secured?                          | X |
| <b>B</b> Is the casing free of degradation or deterioration?   | X |
| <b>C</b> Does the casing have a functioning weep hole?   | X |
| <b>D</b> Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |
| <b>E</b> Is the well locked and is the lock in good condition?   | X |

3) Surface Pad

- |  |   |
|--|---|
| <b>A</b> Is the well pad in good condition (not cracked/broken)?                 | X |
| <b>B</b> Is the well pad sloped away from the protective casing?                 | X |
| <b>C</b> Is the well pad in complete contact with the ground surface and stable? | X |
| <b>D</b> Is the well pad in complete contact with the protective casing?         | X |
| <b>E</b> Is the pad surface clean (not covered with sediment or debris)?         | X |

4) Internal Casing

- |  |   |
|--|---|
| <b>A</b> Does the cap prevent entry of foreign material into the well?   | X |
| <b>B</b> Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |
| <b>C</b> Is the well properly vented for equilibration of air pressure?  | X |
| <b>D</b> Is the survey point clearly marked on the inner casing?   | X |
| <b>E</b> Is the depth of the well consistent with the original well log?   | X |
| <b>F</b> 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

- |   |   |
|---|---|
| <b>A</b> Does water recharge adequately when purged?  | X |
| <b>B</b> If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |
| <b>C</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-41

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-50

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date: \_\_\_\_\_

Signature and Seal of PE/PG responsible for inspection \_\_\_\_\_

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-51

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-52

Date: 1/31/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date: \_\_\_\_\_

Signature and Seal of PE/PG responsible for inspection \_\_\_\_\_

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-54

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-55

Date: 1/31/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-56

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

\_\_\_\_\_



# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-57

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-58

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-59

Date: 1/31/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date: \_\_\_\_\_

Signature and Seal of PE/PG responsible for inspection \_\_\_\_\_

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-60

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-61

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date: \_\_\_\_\_

Signature and Seal of PE/PG responsible for inspection \_\_\_\_\_

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-62

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date: \_\_\_\_\_

Signature and Seal of PE/PG responsible for inspection \_\_\_\_\_

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-63

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |   |
|---|---|---|
| A Is the protective casing free from apparent damage and able to be secured?                          |   | X |
| B Is the casing free of degradation or deterioration?   |   | X |
| C Does the casing have a functioning weep hole?   | X |   |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |   |
| E Is the well locked and is the lock in good condition?   | X |   |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?

X

7) Corrective actions as needed, by date:

Replace missing bolts

Signature and Seal of PE/PG responsible for inspection

\_\_\_\_\_

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-64

Date: 1/31/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date: \_\_\_\_\_

Signature and Seal of PE/PG responsible for inspection \_\_\_\_\_



# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-65

Date: 1/31/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-66

Date: 1/31/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date: \_\_\_\_\_

Signature and Seal of PE/PG responsible for inspection \_\_\_\_\_

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-68

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-72

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date: \_\_\_\_\_

Signature and Seal of PE/PG responsible for inspection \_\_\_\_\_

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-73

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date: \_\_\_\_\_

Signature and Seal of PE/PG responsible for inspection \_\_\_\_\_

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-74

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-76

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-77

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date: \_\_\_\_\_

Signature and Seal of PE/PG responsible for inspection \_\_\_\_\_



# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-78

Date: 1/31/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-79

Date: 1/31/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date: \_\_\_\_\_

Signature and Seal of PE/PG responsible for inspection \_\_\_\_\_

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-80

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-81

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-82

Date: 1/31/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-83

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date: \_\_\_\_\_

Signature and Seal of PE/PG responsible for inspection \_\_\_\_\_

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-85

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |   |   |  |
|---|---|--|
| <b>A</b> Is the well visible and accessible?  | X |  |
| <b>B</b> Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |  |   |  |
|--|---|--|
| <b>A</b> Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |  |   |  |
|--|---|--|
| <b>A</b> Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |  |   |  |
|--|---|--|
| <b>A</b> Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> 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

- |   |   |  |
|---|---|--|
| <b>A</b> Does water recharge adequately when purged?  | X |  |
| <b>B</b> If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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: Needs label

Signature and Seal of PE/PG responsible for inspection \_\_\_\_\_

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-86

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |   |   |  |
|---|---|--|
| <b>A</b> Is the well visible and accessible?  | X |  |
| <b>B</b> Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |  |   |  |
|--|---|--|
| <b>A</b> Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |  |   |  |
|--|---|--|
| <b>A</b> Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |  |   |  |
|--|---|--|
| <b>A</b> Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> 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

- |   |   |  |
|---|---|--|
| <b>A</b> Does water recharge adequately when purged?  | X |  |
| <b>B</b> If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</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: Needs label

Signature and Seal of PE/PG responsible for inspection \_\_\_\_\_



# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-87

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |   |   |   |
|---|---|---|
| <b>A</b> Is the well visible and accessible?  | X |   |
| <b>B</b> Is the well properly identified with correct well ID?  | X |   |
| <b>C</b> Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |  |   |  |
|--|---|--|
| <b>A</b> Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |  |   |  |
|--|---|--|
| <b>A</b> Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |  |   |  |
|--|---|--|
| <b>A</b> Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> 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

- |   |   |   |
|---|---|---|
| <b>A</b> Does water recharge adequately when purged?  | X |   |
| <b>B</b> If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| <b>C</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-88

Date: 1/31/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-89

Date: 1/31/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-90

Date: 1/31/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-91

Date: 1/31/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date: \_\_\_\_\_

Signature and Seal of PE/PG responsible for inspection \_\_\_\_\_

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-92

Date: 1/31/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |   |   |   |  |
|---|---|---|--|
| <b>A</b> Is the well visible and accessible?  | X |   |  |
| <b>B</b> Is the well properly identified with correct well ID?  | X |   |  |
| <b>C</b> Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |  |
| <b>D</b> Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |  |

2) Protective Casing

- |  |   |  |  |
|--|---|--|--|
| <b>A</b> Is the protective casing free from apparent damage and able to be secured?                          | X |  |  |
| <b>B</b> Is the casing free of degradation or deterioration?   | X |  |  |
| <b>C</b> Does the casing have a functioning weep hole?   | X |  |  |
| <b>D</b> Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |  |
| <b>E</b> Is the well locked and is the lock in good condition?   | X |  |  |

3) Surface Pad

- |  |   |  |  |
|--|---|--|--|
| <b>A</b> Is the well pad in good condition (not cracked/broken)?                 | X |  |  |
| <b>B</b> Is the well pad sloped away from the protective casing?                 | X |  |  |
| <b>C</b> Is the well pad in complete contact with the ground surface and stable? | X |  |  |
| <b>D</b> Is the well pad in complete contact with the protective casing?         | X |  |  |
| <b>E</b> Is the pad surface clean (not covered with sediment or debris)?         | X |  |  |

4) Internal Casing

- |  |   |  |  |
|--|---|--|--|
| <b>A</b> Does the cap prevent entry of foreign material into the well?   | X |  |  |
| <b>B</b> Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |  |
| <b>C</b> Is the well properly vented for equilibration of air pressure?  | X |  |  |
| <b>D</b> Is the survey point clearly marked on the inner casing?   | X |  |  |
| <b>E</b> Is the depth of the well consistent with the original well log?   | X |  |  |
| <b>F</b> 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

- |   |   |   |  |
|---|---|---|--|
| <b>A</b> Does water recharge adequately when purged?  | X |   |  |
| <b>B</b> If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |  |
| <b>C</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-93

Date: 1/31/2023

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- |  |   |   |  |
|--|---|---|--|
| A Is the well visible and accessible?  | X |   |  |
| B Is the well properly identified with correct well ID?  | X |   |  |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |  |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |  |

2) Protective Casing

- |   |   |  |  |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |  |
| B Is the casing free of degradation or deterioration?   | X |  |  |
| C Does the casing have a functioning weep hole?   | X |  |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |  |
| E Is the well locked and is the lock in good condition?   | X |  |  |

3) Surface Pad

- |   |   |  |  |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |  |

4) Internal Casing

- |   |   |  |  |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |  |
| E Is the depth of the well consistent with the original well log?   | X |  |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |  |
|--|---|---|--|
| A Does water recharge adequately when purged?  | X |   |  |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |  |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |  |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?

X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-94

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |   |
|---|---|---|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |   |
| B Is the casing free of degradation or deterioration?   | X |   |
| C Does the casing have a functioning weep hole?   | X |   |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |   |
| E Is the well locked and is the lock in good condition?   |   | X |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date: Lock needs replacement

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: 1/31/2023

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- |  |   |   |  |
|--|---|---|--|
| A Is the well visible and accessible?  | X |   |  |
| B Is the well properly identified with correct well ID?  | X |   |  |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |  |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |  |

2) Protective Casing

- |   |   |  |  |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |  |
| B Is the casing free of degradation or deterioration?   | X |  |  |
| C Does the casing have a functioning weep hole?   | X |  |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |  |
| E Is the well locked and is the lock in good condition?   | X |  |  |

3) Surface Pad

- |   |   |  |  |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |  |

4) Internal Casing

- |   |   |  |  |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |  |
| E Is the depth of the well consistent with the original well log?   | X |  |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |  |
|--|---|---|--|
| A Does water recharge adequately when purged?  | X |   |  |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |  |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |  |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-96

Date: 1/31/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-97

Date: 1/31/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-98

Date: 1/31/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-99

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

\_\_\_\_\_

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-100

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-101D

Date: 1/31/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date: \_\_\_\_\_

Signature and Seal of PE/PG responsible for inspection \_\_\_\_\_

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-102D

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |   |
|---|---|---|
| A Is the well pad in good condition (not cracked/broken)?                 | X |   |
| B Is the well pad sloped away from the protective casing?                 | X |   |
| C Is the well pad in complete contact with the ground surface and stable? | X |   |
| D Is the well pad in complete contact with the protective casing?         | X |   |
| E Is the pad surface clean (not covered with sediment or debris)?         |   | X |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements?

X

7) Corrective actions as needed, by date:

Ant mound on pad

Signature and Seal of PE/PG responsible for inspection

\_\_\_\_\_



# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-103D

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date: \_\_\_\_\_

Signature and Seal of PE/PG responsible for inspection \_\_\_\_\_

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-104D

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-105D

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date: \_\_\_\_\_

Signature and Seal of PE/PG responsible for inspection \_\_\_\_\_

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-106D

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |   |   |   |
|---|---|---|
| <b>A</b> Is the well visible and accessible?  | X |   |
| <b>B</b> Is the well properly identified with correct well ID?  | X |   |
| <b>C</b> Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |  |   |  |
|--|---|--|
| <b>A</b> Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |  |   |  |
|--|---|--|
| <b>A</b> Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |  |   |  |
|--|---|--|
| <b>A</b> Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> 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

- |   |   |   |
|---|---|---|
| <b>A</b> Does water recharge adequately when purged?  | X |   |
| <b>B</b> If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| <b>C</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-107D

Date: 1/31/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date: \_\_\_\_\_

Signature and Seal of PE/PG responsible for inspection \_\_\_\_\_

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-108D

Date: 1/31/2023

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- |  |   |   |  |
|--|---|---|--|
| A Is the well visible and accessible?  | X |   |  |
| B Is the well properly identified with correct well ID?  | X |   |  |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |  |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |  |

2) Protective Casing

- |   |   |  |  |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |  |
| B Is the casing free of degradation or deterioration?   | X |  |  |
| C Does the casing have a functioning weep hole?   | X |  |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |  |
| E Is the well locked and is the lock in good condition?   | X |  |  |

3) Surface Pad

- |   |   |  |  |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |  |

4) Internal Casing

- |   |   |  |  |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |  |
| E Is the depth of the well consistent with the original well log?   | X |  |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |  |
|--|---|---|--|
| A Does water recharge adequately when purged?  | X |   |  |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |  |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |  |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date: \_\_\_\_\_

Signature and Seal of PE/PG responsible for inspection \_\_\_\_\_

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-109D

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date: \_\_\_\_\_

Signature and Seal of PE/PG responsible for inspection \_\_\_\_\_

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-110D

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection



# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-111D

Date: 1/31/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date: \_\_\_\_\_

Signature and Seal of PE/PG responsible for inspection \_\_\_\_\_

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-112D

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-113D

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-115D

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date: \_\_\_\_\_

Signature and Seal of PE/PG responsible for inspection \_\_\_\_\_

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-116D

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-117D

Date: 1/31/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date: \_\_\_\_\_

Signature and Seal of PE/PG responsible for inspection \_\_\_\_\_

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-118

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date: \_\_\_\_\_

Signature and Seal of PE/PG responsible for inspection \_\_\_\_\_

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-119D

Date: 1/31/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date: \_\_\_\_\_

Signature and Seal of PE/PG responsible for inspection \_\_\_\_\_



# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-120D

Date: 1/31/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date: \_\_\_\_\_

Signature and Seal of PE/PG responsible for inspection \_\_\_\_\_

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-122D

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Is the well visible and accessible?  | X |   |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |   |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Does water recharge adequately when purged?  | X |   |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| <b>C</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-123D

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: AP-1-B-3

Date: 1/31/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: AP-1-B-7

Date: 1/31/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: AP-1-B-8

Date: 1/31/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  | X |   |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |   |   |  |
|---|---|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| B Is the casing free of degradation or deterioration?   | X |  |
| C Does the casing have a functioning weep hole?   | X |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| E Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |   |   |  |
|---|---|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |   |   |  |
|---|---|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |
| E Is the depth of the well consistent with the original well log?   | X |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |
|--|---|---|
| A Does water recharge adequately when purged?  | X |   |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: DW-1

Date: 1/31/2023

	Yes	No	N/A
<u>1) Location/Identification</u>			
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		
<u>2) Protective Casing</u>			
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		
<u>3) Surface Pad</u>			
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		
<u>4) Internal Casing</u>			
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		
<u>5) Sampling: Groundwater Wells Only</u>			
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 <b>1)</b> achieve the objectives of the Groundwater Monitoring Program and <b>2)</b> comply with the applicable regulatory requirements?	X		
<u>7) Corrective actions as needed, by date:</u>			
<u>Signature and Seal of PE/PG responsible for inspection</u>			

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: DW-2

Date: 1/31/2023

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- |  |   |   |  |
|--|---|---|--|
| A Is the well visible and accessible?  | X |   |  |
| B Is the well properly identified with correct well ID?  | X |   |  |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |  |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |  |

2) Protective Casing

- |   |   |  |  |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |  |
| B Is the casing free of degradation or deterioration?   | X |  |  |
| C Does the casing have a functioning weep hole?   | X |  |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |  |
| E Is the well locked and is the lock in good condition?   | X |  |  |

3) Surface Pad

- |   |   |  |  |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |  |

4) Internal Casing

- |   |   |  |  |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |  |
| E Is the depth of the well consistent with the original well log?   | X |  |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |  |
|--|---|---|--|
| A Does water recharge adequately when purged?  | X |   |  |
| B If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |  |
| C Does the well require redevelopment (low flow/turbidity)?  |   | X |  |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date: \_\_\_\_\_

Signature and Seal of PE/PG responsible for inspection \_\_\_\_\_



# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: DW-3

Date: 1/31/2023

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- |  |   |   |  |
|--|---|---|--|
| A Is the well visible and accessible?  | X |   |  |
| B Is the well properly identified with correct well ID?  | X |   |  |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |  |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |  |

2) Protective Casing

- |   |   |  |  |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |  |
| B Is the casing free of degradation or deterioration?   | X |  |  |
| C Does the casing have a functioning weep hole?   | X |  |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |  |
| E Is the well locked and is the lock in good condition?   | X |  |  |

3) Surface Pad

- |   |   |  |  |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |  |

4) Internal Casing

- |   |   |  |  |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well?<br>Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)? | X |  |  |
| B Is the well properly vented for equilibration of air pressure?  | X |  |  |
| C Is the survey point clearly marked on the inner casing?   | X |  |  |
| D Is the depth of the well consistent with the original well log?   | X |  |  |
| E 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?<br>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: DW-4

Date: 1/31/2023

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- |  |   |   |  |
|--|---|---|--|
| A Is the well visible and accessible?  | X |   |  |
| B Is the well properly identified with correct well ID?  | X |   |  |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |  |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |  |

2) Protective Casing

- |   |   |  |  |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |  |
| B Is the casing free of degradation or deterioration?   | X |  |  |
| C Does the casing have a functioning weep hole?   | X |  |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |  |
| E Is the well locked and is the lock in good condition?   | X |  |  |

3) Surface Pad

- |   |   |  |  |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |  |

4) Internal Casing

- |  |   |  |  |
|--|---|--|--|
| A Does the cap prevent entry of foreign material into the well?<br>Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |  |
| B 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?<br>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?<br>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

# Surface Water Monitoring Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: WT-1

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |   |   |   |
|---|---|---|
| <b>A</b> Is the well visible and accessible?  | X |   |
| <b>B</b> Is the well properly identified with correct well ID?  |   | X |
| <b>C</b> Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) |   | X |

2) Protective Casing

- |  |  |   |
|--|--|---|
| <b>A</b> Is the protective casing free from apparent damage and able to be secured?                          |  | X |
| <b>B</b> Is the casing free of degradation or deterioration?   |  | X |
| <b>C</b> Does the casing have a functioning weep hole?   |  | X |
| <b>D</b> Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? |  | X |
| <b>E</b> Is the well locked and is the lock in good condition?   |  | X |

3) Surface Pad

- |  |  |   |
|--|--|---|
| <b>A</b> Is the well pad in good condition (not cracked/broken)?                 |  | X |
| <b>B</b> Is the well pad sloped away from the protective casing?                 |  | X |
| <b>C</b> Is the well pad in complete contact with the ground surface and stable? |  | X |
| <b>D</b> Is the well pad in complete contact with the protective casing?         |  | X |
| <b>E</b> Is the pad surface clean (not covered with sediment or debris)?         |  | X |

4) Internal Casing

- |  |  |   |
|--|--|---|
| <b>A</b> Does the cap prevent entry of foreign material into the well?   |  | X |
| <b>B</b> Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  |  | X |
| <b>C</b> Is the well properly vented for equilibration of air pressure?  |  | X |
| <b>D</b> Is the survey point clearly marked on the inner casing?   |  | X |
| <b>E</b> Is the depth of the well consistent with the original well log?   |  | X |
| <b>F</b> 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

- |  |  |   |
|--|--|---|
| <b>A</b> Does water recharge adequately when purged?<br>If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? |  | X |
| <b>B</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

\_\_\_\_\_

# Surface Water Monitoring Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: WT-2

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |   |   |   |
|---|---|---|
| <b>A</b> Is the well visible and accessible?  | X |   |
| <b>B</b> Is the well properly identified with correct well ID?  |   | X |
| <b>C</b> Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) |   | X |

2) Protective Casing

- |  |  |   |
|--|--|---|
| <b>A</b> Is the protective casing free from apparent damage and able to be secured?                          |  | X |
| <b>B</b> Is the casing free of degradation or deterioration?   |  | X |
| <b>C</b> Does the casing have a functioning weep hole?   |  | X |
| <b>D</b> Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? |  | X |
| <b>E</b> Is the well locked and is the lock in good condition?   |  | X |

3) Surface Pad

- |  |  |   |
|--|--|---|
| <b>A</b> Is the well pad in good condition (not cracked/broken)?                 |  | X |
| <b>B</b> Is the well pad sloped away from the protective casing?                 |  | X |
| <b>C</b> Is the well pad in complete contact with the ground surface and stable? |  | X |
| <b>D</b> Is the well pad in complete contact with the protective casing?         |  | X |
| <b>E</b> Is the pad surface clean (not covered with sediment or debris)?         |  | X |

4) Internal Casing

- |  |  |   |
|--|--|---|
| <b>A</b> Does the cap prevent entry of foreign material into the well?   |  | X |
| <b>B</b> Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  |  | X |
| <b>C</b> Is the well properly vented for equilibration of air pressure?  |  | X |
| <b>D</b> Is the survey point clearly marked on the inner casing?   |  | X |
| <b>E</b> Is the depth of the well consistent with the original well log?   |  | X |
| <b>F</b> 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

- |  |  |   |
|--|--|---|
| <b>A</b> Does water recharge adequately when purged?<br>If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? |  | X |
| <b>B</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

# Surface Water Monitoring Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: WT-3

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |   |   |   |
|---|---|---|
| <b>A</b> Is the well visible and accessible?  | X |   |
| <b>B</b> Is the well properly identified with correct well ID?  |   | X |
| <b>C</b> Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) |   | X |

2) Protective Casing

- |  |  |   |
|--|--|---|
| <b>A</b> Is the protective casing free from apparent damage and able to be secured?                          |  | X |
| <b>B</b> Is the casing free of degradation or deterioration?   |  | X |
| <b>C</b> Does the casing have a functioning weep hole?   |  | X |
| <b>D</b> Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? |  | X |
| <b>E</b> Is the well locked and is the lock in good condition?   |  | X |

3) Surface Pad

- |  |  |   |
|--|--|---|
| <b>A</b> Is the well pad in good condition (not cracked/broken)?                 |  | X |
| <b>B</b> Is the well pad sloped away from the protective casing?                 |  | X |
| <b>C</b> Is the well pad in complete contact with the ground surface and stable? |  | X |
| <b>D</b> Is the well pad in complete contact with the protective casing?         |  | X |
| <b>E</b> Is the pad surface clean (not covered with sediment or debris)?         |  | X |

4) Internal Casing

- |  |  |   |
|--|--|---|
| <b>A</b> Does the cap prevent entry of foreign material into the well?   |  | X |
| <b>B</b> Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  |  | X |
| <b>C</b> Is the well properly vented for equilibration of air pressure?  |  | X |
| <b>D</b> Is the survey point clearly marked on the inner casing?   |  | X |
| <b>E</b> Is the depth of the well consistent with the original well log?   |  | X |
| <b>F</b> 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

- |  |  |   |
|--|--|---|
| <b>A</b> Does water recharge adequately when purged?<br>If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? |  | X |
| <b>B</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

\_\_\_\_\_

# Surface Water Monitoring Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: WT-4

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  |   | X |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) |   | X |

2) Protective Casing

- |   |  |   |
|---|--|---|
| A Is the protective casing free from apparent damage and able to be secured?                          |  | X |
| B Is the casing free of degradation or deterioration?   |  | X |
| C Does the casing have a functioning weep hole?   |  | X |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? |  | X |
| E Is the well locked and is the lock in good condition?   |  | X |

3) Surface Pad

- |   |  |   |
|---|--|---|
| A Is the well pad in good condition (not cracked/broken)?                 |  | X |
| B Is the well pad sloped away from the protective casing?                 |  | X |
| C Is the well pad in complete contact with the ground surface and stable? |  | X |
| D Is the well pad in complete contact with the protective casing?         |  | X |
| E Is the pad surface clean (not covered with sediment or debris)?         |  | X |

4) Internal Casing

- |   |  |   |
|---|--|---|
| A Does the cap prevent entry of foreign material into the well?   |  | X |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  |  | X |
| C Is the well properly vented for equilibration of air pressure?  |  | X |
| D Is the survey point clearly marked on the inner casing?   |  | X |
| E Is the depth of the well consistent with the original well log?   |  | X |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) |  | X |

5) Sampling: Groundwater Wells Only

- |   |  |   |
|---|--|---|
| A Does water recharge adequately when purged?<br>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

\_\_\_\_\_

# Surface Water Monitoring Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: WT-5

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |  |   |   |
|--|---|---|
| A Is the well visible and accessible?  | X |   |
| B Is the well properly identified with correct well ID?  |   | X |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) |   | X |

2) Protective Casing

- |   |  |   |
|---|--|---|
| A Is the protective casing free from apparent damage and able to be secured?                          |  | X |
| B Is the casing free of degradation or deterioration?   |  | X |
| C Does the casing have a functioning weep hole?   |  | X |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? |  | X |
| E Is the well locked and is the lock in good condition?   |  | X |

3) Surface Pad

- |   |  |   |
|---|--|---|
| A Is the well pad in good condition (not cracked/broken)?                 |  | X |
| B Is the well pad sloped away from the protective casing?                 |  | X |
| C Is the well pad in complete contact with the ground surface and stable? |  | X |
| D Is the well pad in complete contact with the protective casing?         |  | X |
| E Is the pad surface clean (not covered with sediment or debris)?         |  | X |

4) Internal Casing

- |   |  |   |
|---|--|---|
| A Does the cap prevent entry of foreign material into the well?   |  | X |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  |  | X |
| C Is the well properly vented for equilibration of air pressure?  |  | X |
| D Is the survey point clearly marked on the inner casing?   |  | X |
| E Is the depth of the well consistent with the original well log?   |  | X |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) |  | X |

5) Sampling: Groundwater Wells Only

- |   |  |   |
|---|--|---|
| A Does water recharge adequately when purged?<br>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

# Surface Water Monitoring Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: WT-6

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |   |   |   |
|---|---|---|
| <b>A</b> Is the well visible and accessible?  | X |   |
| <b>B</b> Is the well properly identified with correct well ID?  |   | X |
| <b>C</b> Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) |   | X |

2) Protective Casing

- |  |  |   |
|--|--|---|
| <b>A</b> Is the protective casing free from apparent damage and able to be secured?                          |  | X |
| <b>B</b> Is the casing free of degradation or deterioration?   |  | X |
| <b>C</b> Does the casing have a functioning weep hole?   |  | X |
| <b>D</b> Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? |  | X |
| <b>E</b> Is the well locked and is the lock in good condition?   |  | X |

3) Surface Pad

- |  |  |   |
|--|--|---|
| <b>A</b> Is the well pad in good condition (not cracked/broken)?                 |  | X |
| <b>B</b> Is the well pad sloped away from the protective casing?                 |  | X |
| <b>C</b> Is the well pad in complete contact with the ground surface and stable? |  | X |
| <b>D</b> Is the well pad in complete contact with the protective casing?         |  | X |
| <b>E</b> Is the pad surface clean (not covered with sediment or debris)?         |  | X |

4) Internal Casing

- |  |  |   |
|--|--|---|
| <b>A</b> Does the cap prevent entry of foreign material into the well?   |  | X |
| <b>B</b> Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  |  | X |
| <b>C</b> Is the well properly vented for equilibration of air pressure?  |  | X |
| <b>D</b> Is the survey point clearly marked on the inner casing?   |  | X |
| <b>E</b> Is the depth of the well consistent with the original well log?   |  | X |
| <b>F</b> 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

- |  |  |   |
|--|--|---|
| <b>A</b> Does water recharge adequately when purged?<br>If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? |  | X |
| <b>B</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:

Tree fallen on gauge

Signature and Seal of PE/PG responsible for inspection

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# Surface Water Monitoring Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: WT-7

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |   |   |   |
|---|---|---|
| <b>A</b> Is the well visible and accessible?  | X |   |
| <b>B</b> Is the well properly identified with correct well ID?  |   | X |
| <b>C</b> Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) |   | X |

2) Protective Casing

- |  |  |   |
|--|--|---|
| <b>A</b> Is the protective casing free from apparent damage and able to be secured?                          |  | X |
| <b>B</b> Is the casing free of degradation or deterioration?   |  | X |
| <b>C</b> Does the casing have a functioning weep hole?   |  | X |
| <b>D</b> Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? |  | X |
| <b>E</b> Is the well locked and is the lock in good condition?   |  | X |

3) Surface Pad

- |  |  |   |
|--|--|---|
| <b>A</b> Is the well pad in good condition (not cracked/broken)?                 |  | X |
| <b>B</b> Is the well pad sloped away from the protective casing?                 |  | X |
| <b>C</b> Is the well pad in complete contact with the ground surface and stable? |  | X |
| <b>D</b> Is the well pad in complete contact with the protective casing?         |  | X |
| <b>E</b> Is the pad surface clean (not covered with sediment or debris)?         |  | X |

4) Internal Casing

- |  |  |   |
|--|--|---|
| <b>A</b> Does the cap prevent entry of foreign material into the well?   |  | X |
| <b>B</b> Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  |  | X |
| <b>C</b> Is the well properly vented for equilibration of air pressure?  |  | X |
| <b>D</b> Is the survey point clearly marked on the inner casing?   |  | X |
| <b>E</b> Is the depth of the well consistent with the original well log?   |  | X |
| <b>F</b> 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

- |  |  |   |
|--|--|---|
| <b>A</b> Does water recharge adequately when purged?<br>If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? |  | X |
| <b>B</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

# Surface Water Monitoring Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: ET-1

Date: 1/30/2023

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |   |   |   |
|---|---|---|
| <b>A</b> Is the well visible and accessible?  | X |   |
| <b>B</b> Is the well properly identified with correct well ID?  |   | X |
| <b>C</b> Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) |   | X |

2) Protective Casing

- |  |  |   |
|--|--|---|
| <b>A</b> Is the protective casing free from apparent damage and able to be secured?                          |  | X |
| <b>B</b> Is the casing free of degradation or deterioration?   |  | X |
| <b>C</b> Does the casing have a functioning weep hole?   |  | X |
| <b>D</b> Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? |  | X |
| <b>E</b> Is the well locked and is the lock in good condition?   |  | X |

3) Surface Pad

- |  |  |   |
|--|--|---|
| <b>A</b> Is the well pad in good condition (not cracked/broken)?                 |  | X |
| <b>B</b> Is the well pad sloped away from the protective casing?                 |  | X |
| <b>C</b> Is the well pad in complete contact with the ground surface and stable? |  | X |
| <b>D</b> Is the well pad in complete contact with the protective casing?         |  | X |
| <b>E</b> Is the pad surface clean (not covered with sediment or debris)?         |  | X |

4) Internal Casing

- |  |  |   |
|--|--|---|
| <b>A</b> Does the cap prevent entry of foreign material into the well?   |  | X |
| <b>B</b> Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  |  | X |
| <b>C</b> Is the well properly vented for equilibration of air pressure?  |  | X |
| <b>D</b> Is the survey point clearly marked on the inner casing?   |  | X |
| <b>E</b> Is the depth of the well consistent with the original well log?   |  | X |
| <b>F</b> 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

- |  |  |   |
|--|--|---|
| <b>A</b> Does water recharge adequately when purged?<br>If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? |  | X |
| <b>B</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

\_\_\_\_\_

**APPENDIX C**

# Well Maintenance and Repair Documentation



## TECHNICAL MEMORANDUM

**DATE** July 28, 2023  
**TO** Joju Abraham, PG  
Southern Company Services  
**CC** Ben Hodges, Georgia Power Company  
**FROM** WSP USA Inc

**PLANT MCDONOUGH ASH POND 1, ASH POND 2, AND ASH POND 3/4  
WELL MAINTENANCE AND REPAIR DOCUMENTATION  
GEORGIA POWER COMPANY**

WSP USA Inc. (WSP) has prepared this memorandum to provide documentation of groundwater monitoring well maintenance and/or repair performed at Plant McDonough Ash Pond 1, and Ash Pond 2 and 3/4 on March 30, and April 3 and 4, 2023. 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.

**Table 1: Plant McDonough Ash Pond 1 – Well Maintenance Summary**

Well ID	Date Performed	Maintenance/Repair Performed
DGWA-53	March and April 2023	Vegetation cleared to improve access and visibility
DGWC-9	March and April 2023	Vegetation cleared to improve access and visibility
DGWC-21	March and April 2023	Ant bed removed to improve access
B-62	March and April 2023	Bolts reinstalled
DGWC-8	March and April 2023	Vegetation cleared to improve access and visibility
B-64	March and April 2023	Locking bar repaired
B-82	March and April 2023	Weep hole added
B-94	March and April 2023	Well cap replaced
B-95	March and April 2023	Locking bar installed
B-96	March and April 2023	Locking bar installed
B-97	March and April 2023	Locking bar installed
B-98	March and April 2023	Locking bar installed

Well ID	Date Performed	Maintenance/Repair Performed
WT-6	March and April 2023	Gauge straightened up
B-122D	March and April 2023	Demolished cracked well pad and replaced
B-89	March and April 2023	Bolt holes retapped in manhole, locking bar added
B-63	March and April 2023	Old well pad and manhole demolished, new manhole and well pad installed
B-65	March and April 2023	Old well pad and manhole demolished, new well pad and 5" manhole installed, locking bar reinstalled

**WSP USA Inc.**

Dawn L. Prell  
*Senior Consultant, Hydrogeologist*

Rhonda Quinn, PG  
*Senior Consultant, Geologist*

Attachments: Southern Company CFS  
Plant McDonough March/April 2023 Well O&M  
(Mar 30th, April 3-4)

[https://golderassociates.sharepoint.com/sites/11950g/shared documents/200\\_reports\\_technical work/annual gw monitoring rpt/2023 annual report/ap-1/appendices/appendix c well condition/mcdonough ap1234 well repair memo apr 2023.docx](https://golderassociates.sharepoint.com/sites/11950g/shared%20documents/200_reports_technical%20work/annual%20gw%20monitoring%20rpt/2023%20annual%20report/ap-1/appendices/appendix%20c%20well%20condition/mcdonough%20ap1234%20well%20repair%20memo%20apr%202023.docx)

**Southern Company CFS**  
**Plant McDonough March/April 2023 Well O&M**  
**(Mar 30<sup>th</sup>, April 3-4)**

DGWA-53 – Cut weeds back from around well pad.



DGWC-9 – Removed bee's nest, installed locking cap.



**Southern Company CFS**  
**Plant McDonough March/April 2023 Well O&M**  
**(Mar 30<sup>th</sup>, April 3-4)**

DGWC-21 – Removed ant bed.



DGWC-42 – Removed ant bed.



B-62 – Reinstalled bolts. (Notes indicated broken bracket. After inspection bracket was not broken, bolts laying inside the cover.)

**Southern Company CFS**  
**Plant McDonough March/April 2023 Well O&M**  
**(Mar 30<sup>th</sup>, April 3-4)**

B-6 – Inspected B-6 and did not need maintenance. (Notes indicated needed locking bar but B-6 is a stickup well, not flush mount.)



B-64 – Repaired locking bar.



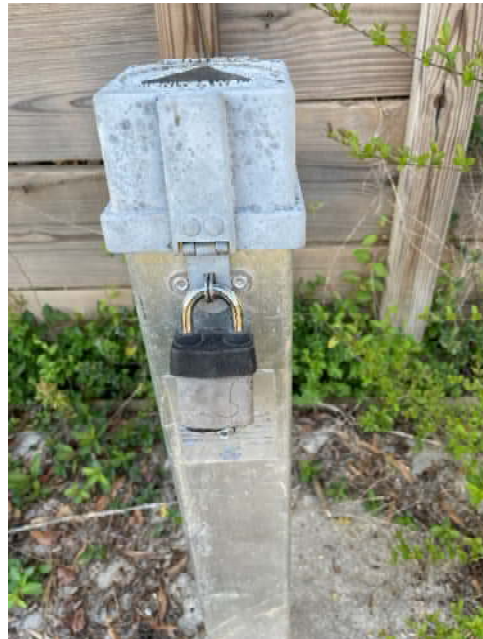


**Southern Company CFS**  
**Plant McDonough March/April 2023 Well O&M**  
**(Mar 30<sup>th</sup>, April 3-4)**

B-82 – Drilled weep hole.



B-94 – replaced well cap so the protective cover will lock.



**Southern Company CFS**  
**Plant McDonough March/April 2023 Well O&M**  
**(Mar 30<sup>th</sup>, April 3-4)**

B-95 – Installed locking bar.



B-96 – Installed Locking bar.



**Southern Company CFS**  
**Plant McDonough March/April 2023 Well O&M**  
**(Mar 30<sup>th</sup>, April 3-4)**

B-97 – Installed locking bar.



B-98 – Installed locking bar.



**Southern Company CFS**  
**Plant McDonough March/April 2023 Well O&M**  
**(Mar 30<sup>th</sup>, April 3-4)**

B-102D – No ant beds on pad currently



WT-6 – Straightened the gauge up, however the wires connecting the gauge to the tree (yellow wire seen in picture) was ripped out of the gauge by whatever hit the gauge. The wiring will need to be repaired/reinstalled, and the gauge needs to be resurveyed.



**Southern Company CFS**  
**Plant McDonough March/April 2023 Well O&M**  
**(Mar 30<sup>th</sup>, April 3-4)**

B-122D – Demolished cracked well pad and replaced.



B-89 – Retapped bolt holes in manhole, added bar.



**Southern Company CFS**  
**Plant McDonough March/April 2023 Well O&M**  
**(Mar 30<sup>th</sup>, April 3-4)**

B-63 – Demolished old pad and manhole, installed new manhole and pad.



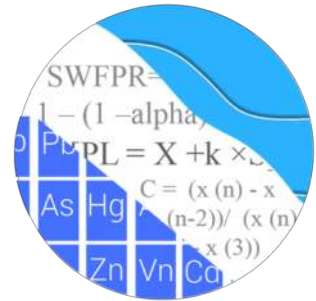
B-65 – Demolished old pad and manhole, Installed new 5" manhole (to try to take pressure off the manhole from the concrete trucks), reinstalled bar.



**APPENDIX D**

**Statistical Analyses, September 2022**

## GROUNDWATER STATS CONSULTING



February 28, 2023

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 2022 Statistical Analysis

Dear Mr. Abraham,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the September 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



- **Assessment 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 assessment 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
- **2022** – B-122D

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Andrew Collins, Project Manager for 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 assessment 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 – September 2022**

### Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data through September 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 September 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, DGWC-11, DGWC-17
- Calcium: DGWC-4, DGWC-5, DGWC-11, DGWC-19, DGWC-21, and DGWC-23
- Chloride: DGWC-5, DGWC-9, DGWC-15, and DGWC-20
- pH: DGWC-5 and DGWC-19
- Sulfate: DGWC-19
- TDS: DGWC-4, DGWC-5, DGWC-11, DGWC-17, and DGWC-19

#### Decreasing trends

- Boron: DGWC-2, DGWC-8, DGWC-9, DGWC-10, DGWC-12, DGWC-19, DGWC-20, DGWC-47, and DGWC-48
- Calcium: DGWC-12, DGWC-48, and DGWA-53 (upgradient)
- Chloride: DGWC-4, 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 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-12, DGWC-20, DGWC-48, and DGWA-53 (upgradient)

### **Statistical Analysis of Appendix IV Parameters – September 2022**

For Appendix IV parameters, confidence intervals for each downgradient and assessment 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 assessment 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 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 assessment 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, B-93, and B-115D
- Cobalt: DGWC-8, DGWC-9, DGWC-10, DGWC-19, DGWC-20, DGWC-47, DGWC-48, B-56, B-63, B-93, B-104D, B-109D, and B-115D
- Combined Radium 226 + 228: B-104D and B-109D
- Lithium: DGWC-47, DGWC-48, B-115D, and B-120D

#### 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. Note that trend tests were not included for beryllium at well B-115D, cobalt at well B-115D, combined radium 226 + 228 at well B-109D, and lithium at wells B-115D and B-120D because trend tests require a minimum of 5 samples and these well/constituent pairs do not yet meet the minimum sample requirement. 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,

Handwritten signature of Abdul Diane in cursive script.

Abdul Diane  
Groundwater Analyst

Handwritten signature of Andrew T. Collins in cursive script.

Andrew T. Collins  
Project Manager

# 100% Non-Detects: Appendix IV Downgradient & Assessment

Analysis Run 11/22/2022 9:26 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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**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

**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-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-93, B-97, B-98

# Interwell Prediction Limits - Significant Results

Plant McDonough    Client: Southern Company    Data: McDonough AP    Printed 10/19/2022, 2:45 AM

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	9/15/2022	0.42	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-11	0.13	n/a	9/15/2022	1.7	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-12	0.13	n/a	9/15/2022	3.3	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-13	0.13	n/a	9/15/2022	0.69	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-15	0.13	n/a	9/13/2022	1.5	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-17	0.13	n/a	9/14/2022	0.87	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-19	0.13	n/a	9/14/2022	2.4	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-2	0.13	n/a	9/20/2022	0.42	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-20	0.13	n/a	9/15/2022	4.2	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-21	0.13	n/a	9/15/2022	6.7	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-22	0.13	n/a	9/16/2022	4.2	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-23	0.13	n/a	9/20/2022	4.6	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-4	0.13	n/a	9/19/2022	4.8	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-42	0.13	n/a	9/13/2022	1.1	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-47	0.13	n/a	9/13/2022	0.18	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-48	0.13	n/a	9/13/2022	0.61	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-5	0.13	n/a	9/14/2022	5	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-8	0.13	n/a	9/15/2022	0.83	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-9	0.13	n/a	9/19/2022	0.8	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-10	40.3	n/a	9/15/2022	64.4	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-11	40.3	n/a	9/15/2022	66.6	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-12	40.3	n/a	9/15/2022	41.5	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-19	40.3	n/a	9/14/2022	105	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-20	40.3	n/a	9/15/2022	70.1	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-21	40.3	n/a	9/15/2022	82.2	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-22	40.3	n/a	9/16/2022	66.2	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-23	40.3	n/a	9/20/2022	90	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-4	40.3	n/a	9/19/2022	376	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-48	40.3	n/a	9/13/2022	65.3	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-5	40.3	n/a	9/14/2022	117	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-9	40.3	n/a	9/19/2022	45.1	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-11	8.2	n/a	9/15/2022	12.1	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-13	8.2	n/a	9/15/2022	13.7	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-15	8.2	n/a	9/13/2022	21.9	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-17	8.2	n/a	9/14/2022	19	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-19	8.2	n/a	9/14/2022	18.7	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-20	8.2	n/a	9/15/2022	26.2	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-21	8.2	n/a	9/15/2022	17.6	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-22	8.2	n/a	9/16/2022	18	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-23	8.2	n/a	9/20/2022	11.6	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-4	8.2	n/a	9/19/2022	11.2	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-42	8.2	n/a	9/13/2022	18.7	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-48	8.2	n/a	9/13/2022	8.9	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-5	8.2	n/a	9/14/2022	11.2	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-8	8.2	n/a	9/15/2022	8.3	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-9	8.2	n/a	9/19/2022	13.2	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-10	0.42	n/a	9/15/2022	0.84	Yes	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-20	0.42	n/a	9/15/2022	0.69	Yes	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-47	0.42	n/a	9/13/2022	0.47	Yes	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-48	0.42	n/a	9/13/2022	0.43	Yes	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-9	0.42	n/a	9/19/2022	0.8	Yes	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-10	6.669	5.189	9/15/2022	4.87	Yes	56	1.772	0.05718	0	None	ln(x)	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-17	6.669	5.189	9/14/2022	5.08	Yes	56	1.772	0.05718	0	None	ln(x)	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-19	6.669	5.189	9/14/2022	4.81	Yes	56	1.772	0.05718	0	None	ln(x)	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-20	6.669	5.189	9/15/2022	4.58	Yes	56	1.772	0.05718	0	None	ln(x)	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-42	6.669	5.189	9/13/2022	5.04	Yes	56	1.772	0.05718	0	None	ln(x)	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-47	6.669	5.189	9/13/2022	4.15	Yes	56	1.772	0.05718	0	None	ln(x)	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-48	6.669	5.189	9/13/2022	4.25	Yes	56	1.772	0.05718	0	None	ln(x)	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-5	6.669	5.189	9/14/2022	4.75	Yes	56	1.772	0.05718	0	None	ln(x)	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-9	6.669	5.189	9/19/2022	3.98	Yes	56	1.772	0.05718	0	None	ln(x)	0.0001881	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-10	49	n/a	9/15/2022	229	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-11	49	n/a	9/15/2022	287	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-12	49	n/a	9/15/2022	191	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-13	49	n/a	9/15/2022	133	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-15	49	n/a	9/13/2022	145	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-17	49	n/a	9/14/2022	268	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-19	49	n/a	9/14/2022	388	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-2	49	n/a	9/20/2022	98.4	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2

# Interwell Prediction Limits - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 10/19/2022, 2:45 AM

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-20	49	n/a	9/15/2022	462	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-21	49	n/a	9/15/2022	268	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-22	49	n/a	9/16/2022	265	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-23	49	n/a	9/20/2022	242	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-4	49	n/a	9/19/2022	925	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-42	49	n/a	9/13/2022	326	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-47	49	n/a	9/13/2022	150	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-48	49	n/a	9/13/2022	309	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-5	49	n/a	9/14/2022	505	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-8	49	n/a	9/15/2022	134	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-9	49	n/a	9/19/2022	274	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-11	285.8	n/a	9/15/2022	414	Yes	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-12	285.8	n/a	9/15/2022	377	Yes	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-15	285.8	n/a	9/13/2022	289	Yes	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-17	285.8	n/a	9/14/2022	434	Yes	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-19	285.8	n/a	9/14/2022	572	Yes	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-20	285.8	n/a	9/15/2022	618	Yes	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-21	285.8	n/a	9/15/2022	440	Yes	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-22	285.8	n/a	9/16/2022	462	Yes	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-23	285.8	n/a	9/20/2022	511	Yes	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-4	285.8	n/a	9/19/2022	1670	Yes	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-42	285.8	n/a	9/13/2022	540	Yes	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-48	285.8	n/a	9/13/2022	527	Yes	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-5	285.8	n/a	9/14/2022	850	Yes	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-9	285.8	n/a	9/19/2022	456	Yes	48	4.543	0.9224	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 10/19/2022, 2:45 AM

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	9/15/2022	0.42	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-11	0.13	n/a	9/15/2022	1.7	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-12	0.13	n/a	9/15/2022	3.3	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-13	0.13	n/a	9/15/2022	0.69	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-14	0.13	n/a	9/13/2022	0.091	No	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-15	0.13	n/a	9/13/2022	1.5	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-17	0.13	n/a	9/14/2022	0.87	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-19	0.13	n/a	9/14/2022	2.4	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-2	0.13	n/a	9/20/2022	0.42	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-20	0.13	n/a	9/15/2022	4.2	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-21	0.13	n/a	9/15/2022	6.7	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-22	0.13	n/a	9/16/2022	4.2	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-23	0.13	n/a	9/20/2022	4.6	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-4	0.13	n/a	9/19/2022	4.8	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-42	0.13	n/a	9/13/2022	1.1	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-47	0.13	n/a	9/13/2022	0.18	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-48	0.13	n/a	9/13/2022	0.61	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-5	0.13	n/a	9/14/2022	5	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-8	0.13	n/a	9/15/2022	0.83	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-9	0.13	n/a	9/19/2022	0.8	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-10	40.3	n/a	9/15/2022	64.4	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-11	40.3	n/a	9/15/2022	66.6	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-12	40.3	n/a	9/15/2022	41.5	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-13	40.3	n/a	9/15/2022	36.7	No	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-14	40.3	n/a	9/13/2022	11.2	No	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-15	40.3	n/a	9/13/2022	34.4	No	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-17	40.3	n/a	9/14/2022	16.4	No	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-19	40.3	n/a	9/14/2022	105	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-2	40.3	n/a	9/20/2022	37.8	No	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-20	40.3	n/a	9/15/2022	70.1	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-21	40.3	n/a	9/15/2022	82.2	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-22	40.3	n/a	9/16/2022	66.2	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-23	40.3	n/a	9/20/2022	90	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-4	40.3	n/a	9/19/2022	376	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-42	40.3	n/a	9/13/2022	34.2	No	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-47	40.3	n/a	9/13/2022	24.8	No	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-48	40.3	n/a	9/13/2022	65.3	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-5	40.3	n/a	9/14/2022	117	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-8	40.3	n/a	9/15/2022	29.3	No	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-9	40.3	n/a	9/19/2022	45.1	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-10	8.2	n/a	9/15/2022	8.2	No	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-11	8.2	n/a	9/15/2022	12.1	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-12	8.2	n/a	9/15/2022	8.2	No	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-13	8.2	n/a	9/15/2022	13.7	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-14	8.2	n/a	9/13/2022	3.5	No	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-15	8.2	n/a	9/13/2022	21.9	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-17	8.2	n/a	9/14/2022	19	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-19	8.2	n/a	9/14/2022	18.7	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-2	8.2	n/a	9/20/2022	2	No	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-20	8.2	n/a	9/15/2022	26.2	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-21	8.2	n/a	9/15/2022	17.6	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-22	8.2	n/a	9/16/2022	18	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-23	8.2	n/a	9/20/2022	11.6	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-4	8.2	n/a	9/19/2022	11.2	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-42	8.2	n/a	9/13/2022	18.7	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-47	8.2	n/a	9/13/2022	3.3	No	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-48	8.2	n/a	9/13/2022	8.9	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-5	8.2	n/a	9/14/2022	11.2	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-8	8.2	n/a	9/15/2022	8.3	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-9	8.2	n/a	9/19/2022	13.2	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-10	0.42	n/a	9/15/2022	0.84	Yes	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-11	0.42	n/a	9/15/2022	0.064J	No	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-12	0.42	n/a	9/15/2022	0.078J	No	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-13	0.42	n/a	9/15/2022	0.095J	No	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-14	0.42	n/a	9/13/2022	0.059J	No	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-15	0.42	n/a	9/13/2022	0.065J	No	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-17	0.42	n/a	9/14/2022	0.1	No	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-19	0.42	n/a	9/14/2022	0.18	No	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2



# Interwell Prediction Limits - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 10/19/2022, 2:45 AM

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-48	285.8	n/a	9/13/2022	527	Yes	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-5	285.8	n/a	9/14/2022	850	Yes	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-8	285.8	n/a	9/15/2022	234	No	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-9	285.8	n/a	9/19/2022	456	Yes	48	4.543	0.9224	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 10/19/2022, 2:50 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	DGWC-10	-0.6423	-83	-53	Yes	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-11	0.095	88	53	Yes	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-12	-1.28	-89	-63	Yes	17	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-17	0.0358	60	58	Yes	16	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-19	-0.1619	-61	-58	Yes	16	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-2	-0.2101	-114	-58	Yes	16	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-20	-0.5955	-84	-58	Yes	16	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-4	0.2684	71	53	Yes	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-47	-0.03016	-96	-58	Yes	16	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-48	-0.06746	-88	-58	Yes	16	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-8	-0.3705	-92	-53	Yes	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-9	-0.2529	-99	-58	Yes	16	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWA-53 (bg)	-3.715	-76	-58	Yes	16	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-11	4.261	83	53	Yes	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-12	-10.06	-78	-58	Yes	16	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-19	6.369	102	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-21	1.958	62	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-23	2.115	61	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-4	22.28	73	53	Yes	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-48	-6.895	-100	-58	Yes	16	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-5	6.333	65	53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWA-53 (bg)	-0.1771	-85	-63	Yes	17	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-15	0.4392	59	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-19	-3.747	-98	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-20	2.426	101	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-21	-1.053	-91	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-22	-2.126	-93	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-23	-0.8986	-101	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-4	-3.414	-114	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-42	-2.91	-102	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-48	-1.826	-84	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-5	0.3411	57	53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-9	0.626	69	58	Yes	16	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWC-47	-0.1679	-89	-68	Yes	18	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWC-48	-0.1553	-91	-68	Yes	18	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-19	0.04093	79	68	Yes	18	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-47	-0.1631	-73	-68	Yes	18	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-5	0.07276	69	68	Yes	18	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-9	-0.02181	-104	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWA-70A (bg)	-0.1765	-60	-58	Yes	16	43.75	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWA-71 (bg)	-1.051	-88	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-12	-42.42	-73	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-15	-8.479	-82	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-19	17.24	77	58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-2	-44.93	-112	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-20	-45.89	-84	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-21	-7.273	-62	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-42	-13.23	-61	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-47	-44.25	-93	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-48	-52.03	-101	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-8	-66.86	-98	-53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWA-53 (bg)	-21.09	-79	-58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-11	28.16	64	53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-12	-58.28	-77	-58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-17	10.39	59	58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-19	31.56	79	58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-20	-55.19	-94	-58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-4	79.41	70	58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-48	-57.63	-104	-58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-5	43.17	81	53	Yes	15	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 10/19/2022, 2:50 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	DGWA-53 (bg)	-0.003305	-39	-58	No	16	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWA-70A (bg)	0	33	58	No	16	56.25	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWA-71 (bg)	0.0007215	16	53	No	15	26.67	n/a	n/a	0.01	NP
<b>Boron, total (mg/L)</b>	<b>DGWC-10</b>	<b>-0.6423</b>	<b>-83</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron, total (mg/L)</b>	<b>DGWC-11</b>	<b>0.095</b>	<b>88</b>	<b>53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron, total (mg/L)</b>	<b>DGWC-12</b>	<b>-1.28</b>	<b>-89</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron, total (mg/L)	DGWC-13	-0.05906	-47	-53	No	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-15	0.005901	15	58	No	16	0	n/a	n/a	0.01	NP
<b>Boron, total (mg/L)</b>	<b>DGWC-17</b>	<b>0.0358</b>	<b>60</b>	<b>58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron, total (mg/L)</b>	<b>DGWC-19</b>	<b>-0.1619</b>	<b>-61</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron, total (mg/L)</b>	<b>DGWC-2</b>	<b>-0.2101</b>	<b>-114</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron, total (mg/L)</b>	<b>DGWC-20</b>	<b>-0.5955</b>	<b>-84</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron, total (mg/L)	DGWC-21	0.2627	34	58	No	16	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-22	0.06805	27	58	No	16	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-23	0.08846	30	58	No	16	0	n/a	n/a	0.01	NP
<b>Boron, total (mg/L)</b>	<b>DGWC-4</b>	<b>0.2684</b>	<b>71</b>	<b>53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron, total (mg/L)	DGWC-42	-0.01051	-20	-58	No	16	0	n/a	n/a	0.01	NP
<b>Boron, total (mg/L)</b>	<b>DGWC-47</b>	<b>-0.03016</b>	<b>-96</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron, total (mg/L)</b>	<b>DGWC-48</b>	<b>-0.06746</b>	<b>-88</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron, total (mg/L)	DGWC-5	-0.04623	-8	-53	No	15	0	n/a	n/a	0.01	NP
<b>Boron, total (mg/L)</b>	<b>DGWC-8</b>	<b>-0.3705</b>	<b>-92</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron, total (mg/L)</b>	<b>DGWC-9</b>	<b>-0.2529</b>	<b>-99</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium, total (mg/L)</b>	<b>DGWA-53 (bg)</b>	<b>-3.715</b>	<b>-76</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	DGWA-70A (bg)	-0.03479	-12	-58	No	16	6.25	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWA-71 (bg)	-0.4482	-35	-53	No	15	6.667	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-10	-1.696	-29	-53	No	15	0	n/a	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>DGWC-11</b>	<b>4.261</b>	<b>83</b>	<b>53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium, total (mg/L)</b>	<b>DGWC-12</b>	<b>-10.06</b>	<b>-78</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium, total (mg/L)</b>	<b>DGWC-19</b>	<b>6.369</b>	<b>102</b>	<b>58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	DGWC-20	-4.337	-42	-58	No	16	0	n/a	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>DGWC-21</b>	<b>1.958</b>	<b>62</b>	<b>58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	DGWC-22	0.2951	21	58	No	16	0	n/a	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>DGWC-23</b>	<b>2.115</b>	<b>61</b>	<b>58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium, total (mg/L)</b>	<b>DGWC-4</b>	<b>22.28</b>	<b>73</b>	<b>53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium, total (mg/L)</b>	<b>DGWC-48</b>	<b>-6.895</b>	<b>-100</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium, total (mg/L)</b>	<b>DGWC-5</b>	<b>6.333</b>	<b>65</b>	<b>53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	DGWC-9	-5.436	-52	-58	No	16	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>DGWA-53 (bg)</b>	<b>-0.1771</b>	<b>-85</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	DGWA-70A (bg)	-0.06575	-45	-58	No	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWA-71 (bg)	0.3259	40	58	No	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-11	0.5735	41	53	No	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-13	-0.2472	-13	-53	No	15	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>DGWC-15</b>	<b>0.4392</b>	<b>59</b>	<b>58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	DGWC-17	0.3354	28	58	No	16	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>DGWC-19</b>	<b>-3.747</b>	<b>-98</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride, Total (mg/L)</b>	<b>DGWC-20</b>	<b>2.426</b>	<b>101</b>	<b>58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride, Total (mg/L)</b>	<b>DGWC-21</b>	<b>-1.053</b>	<b>-91</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride, Total (mg/L)</b>	<b>DGWC-22</b>	<b>-2.126</b>	<b>-93</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride, Total (mg/L)</b>	<b>DGWC-23</b>	<b>-0.8986</b>	<b>-101</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride, Total (mg/L)</b>	<b>DGWC-4</b>	<b>-3.414</b>	<b>-114</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride, Total (mg/L)</b>	<b>DGWC-42</b>	<b>-2.91</b>	<b>-102</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride, Total (mg/L)</b>	<b>DGWC-48</b>	<b>-1.826</b>	<b>-84</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride, Total (mg/L)</b>	<b>DGWC-5</b>	<b>0.3411</b>	<b>57</b>	<b>53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	DGWC-8	-0.2292	-43	-53	No	15	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>DGWC-9</b>	<b>0.626</b>	<b>69</b>	<b>58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Fluoride, total (mg/L)	DGWA-53 (bg)	-0.0006648	-9	-74	No	19	10.53	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWA-70A (bg)	0	47	63	No	17	64.71	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWA-71 (bg)	0	22	68	No	18	77.78	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWC-10	0	4	68	No	18	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWC-20	0.04015	19	68	No	18	5.556	n/a	n/a	0.01	NP
<b>Fluoride, total (mg/L)</b>	<b>DGWC-47</b>	<b>-0.1679</b>	<b>-89</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Fluoride, total (mg/L)</b>	<b>DGWC-48</b>	<b>-0.1553</b>	<b>-91</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Fluoride, total (mg/L)	DGWC-9	0	7	68	No	18	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWA-53 (bg)	0.01874	12	74	No	19	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWA-70A (bg)	-0.02257	-32	-68	No	18	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWA-71 (bg)	0	1	74	No	19	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-10	0.02347	21	74	No	19	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-17	0	4	74	No	19	0	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 10/19/2022, 2:50 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
<b>pH, Field (SU)</b>	<b>DGWC-19</b>	<b>0.04093</b>	<b>79</b>	<b>68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
pH, Field (SU)	DGWC-20	-0.02109	-57	-63	No	17	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-42	-0.02876	-52	-68	No	18	0	n/a	n/a	0.01	NP
<b>pH, Field (SU)</b>	<b>DGWC-47</b>	<b>-0.1631</b>	<b>-73</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
pH, Field (SU)	DGWC-48	-0.03316	-43	-68	No	18	0	n/a	n/a	0.01	NP
<b>pH, Field (SU)</b>	<b>DGWC-5</b>	<b>0.07276</b>	<b>69</b>	<b>68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>pH, Field (SU)</b>	<b>DGWC-9</b>	<b>-0.02181</b>	<b>-104</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	DGWA-53 (bg)	-0.7643	-32	-63	No	17	0	n/a	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWA-70A (bg)</b>	<b>-0.1765</b>	<b>-60</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>43.75</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWA-71 (bg)</b>	<b>-1.051</b>	<b>-88</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	DGWC-10	-30.79	-57	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-11	11.92	48	53	No	15	0	n/a	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-12</b>	<b>-42.42</b>	<b>-73</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	DGWC-13	-8.581	-53	-53	No	15	0	n/a	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-15</b>	<b>-8.479</b>	<b>-82</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	DGWC-17	0	2	58	No	16	0	n/a	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-19</b>	<b>17.24</b>	<b>77</b>	<b>58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-2</b>	<b>-44.93</b>	<b>-112</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-20</b>	<b>-45.89</b>	<b>-84</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-21</b>	<b>-7.273</b>	<b>-62</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	DGWC-22	-5.891	-21	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-23	0.2684	10	58	No	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-4	27.81	42	58	No	16	0	n/a	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-42</b>	<b>-13.23</b>	<b>-61</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-47</b>	<b>-44.25</b>	<b>-93</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-48</b>	<b>-52.03</b>	<b>-101</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	DGWC-5	4.117	7	53	No	15	0	n/a	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-8</b>	<b>-66.86</b>	<b>-98</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	DGWC-9	-11.5	-36	-58	No	16	0	n/a	n/a	0.01	NP
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWA-53 (bg)</b>	<b>-21.09</b>	<b>-79</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids [TDS] (mg/L)	DGWA-70A (bg)	-2.113	-12	-58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWA-71 (bg)	-3.712	-40	-58	No	16	0	n/a	n/a	0.01	NP
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-11</b>	<b>28.16</b>	<b>64</b>	<b>53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-12</b>	<b>-58.28</b>	<b>-77</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids [TDS] (mg/L)	DGWC-15	-0.7883	-3	-53	No	15	0	n/a	n/a	0.01	NP
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-17</b>	<b>10.39</b>	<b>59</b>	<b>58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-19</b>	<b>31.56</b>	<b>79</b>	<b>58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-20</b>	<b>-55.19</b>	<b>-94</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids [TDS] (mg/L)	DGWC-21	-4.363	-17	-58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-22	-5.96	-47	-58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-23	2.758	21	58	No	16	0	n/a	n/a	0.01	NP
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-4</b>	<b>79.41</b>	<b>70</b>	<b>58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids [TDS] (mg/L)	DGWC-42	-19.72	-45	-58	No	16	0	n/a	n/a	0.01	NP
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-48</b>	<b>-57.63</b>	<b>-104</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-5</b>	<b>43.17</b>	<b>81</b>	<b>53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids [TDS] (mg/L)	DGWC-9	1.122	3	58	No	16	0	n/a	n/a	0.01	NP

# Upper Tolerance Limits Summary Table

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/18/2022, 1:43 AM

Constituent	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	0.003	n/a	n/a	n/a	n/a	50	82	n/a	0.07694	NP Inter(NDs)
Arsenic (mg/L)	0.0054	n/a	n/a	n/a	n/a	50	74	n/a	0.07694	NP Inter(normality)
Barium (mg/L)	0.19	n/a	n/a	n/a	n/a	50	0	n/a	0.07694	NP Inter(normality)
Beryllium (mg/L)	0.0009	n/a	n/a	n/a	n/a	51	58.82	n/a	0.0731	NP Inter(normality)
Cadmium (mg/L)	0.0005	n/a	n/a	n/a	n/a	50	94	n/a	0.07694	NP Inter(NDs)
Chromium (mg/L)	0.005	n/a	n/a	n/a	n/a	49	65.31	n/a	0.08099	NP Inter(normality)
Cobalt (mg/L)	0.0322	n/a	n/a	n/a	n/a	50	40	n/a	0.07694	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	4.8	n/a	n/a	n/a	n/a	52	0	sqrt(x)	0.05	Inter
Fluoride (mg/L)	0.42	n/a	n/a	n/a	n/a	54	50	n/a	0.06267	NP Inter(normality)
Lead (mg/L)	0.001	n/a	n/a	n/a	n/a	50	82	n/a	0.07694	NP Inter(NDs)
Lithium (mg/L)	0.03	n/a	n/a	n/a	n/a	50	36	n/a	0.07694	NP Inter(normality)
Mercury (mg/L)	0.0002	n/a	n/a	n/a	n/a	50	84	n/a	0.07694	NP Inter(NDs)
Molybdenum (mg/L)	0.0409	n/a	n/a	n/a	n/a	50	64	n/a	0.07694	NP Inter(normality)
Selenium (mg/L)	0.005	n/a	n/a	n/a	n/a	50	100	n/a	0.07694	NP Inter(NDs)
Thallium (mg/L)	0.001	n/a	n/a	n/a	n/a	50	96	n/a	0.07694	NP Inter(NDs)

<b>PLANT MCDONOUGH ASH POND 2, 3, 4 GWPS TABLE</b>				
<b>Constituent Name</b>	<b>MCL</b>	<b>CCR-Rule Specified</b>	<b>Background Limit</b>	<b>GWPS</b>
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		4.8	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 11/22/2022, 10:01 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	DGWC-9	0.0284	0.01657	0.01	Yes	17	0.02248	0.009441	5.882	None	No	0.01	Param.
Beryllium (mg/L)	B-115D	0.01285	0.009146	0.004	Yes	4	0.011	0.0008165	0	None	No	0.01	Param.
Beryllium (mg/L)	B-92	0.02243	0.01277	0.004	Yes	5	0.0176	0.002881	0	None	No	0.01	Param.
Beryllium (mg/L)	B-93	0.017	0.0069	0.004	Yes	7	0.0147	0.003582	0	None	No	0.008	NP (normality)
Beryllium (mg/L)	DGWC-10	0.009022	0.005928	0.004	Yes	16	0.007475	0.002377	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-47	0.01243	0.009111	0.004	Yes	17	0.01077	0.002649	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-48	0.008951	0.007416	0.004	Yes	17	0.008218	0.001265	0	None	x^(1/3)	0.01	Param.
Beryllium (mg/L)	DGWC-5	0.008813	0.006512	0.004	Yes	16	0.007663	0.001768	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-9	0.005802	0.004939	0.004	Yes	17	0.005371	0.0006881	0	None	No	0.01	Param.
Cobalt (mg/L)	B-104D	0.2056	0.09109	0.032	Yes	6	0.1483	0.04167	0	None	No	0.01	Param.
Cobalt (mg/L)	B-115D	0.3375	0.1875	0.032	Yes	4	0.2625	0.03304	0	None	No	0.01	Param.
Cobalt (mg/L)	B-56	0.05346	0.04121	0.032	Yes	6	0.04733	0.004457	0	None	No	0.01	Param.
Cobalt (mg/L)	B-63	0.05067	0.03805	0.032	Yes	7	0.04436	0.005313	0	None	No	0.01	Param.
Cobalt (mg/L)	B-93	0.06739	0.05889	0.032	Yes	7	0.06314	0.003579	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-10	0.193	0.076	0.032	Yes	16	0.1441	0.05294	0	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-19	0.05329	0.04968	0.032	Yes	17	0.05148	0.002882	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-20	0.6845	0.4878	0.032	Yes	17	0.5919	0.1635	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	DGWC-47	0.369	0.2475	0.032	Yes	17	0.3083	0.09696	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-48	0.4925	0.3864	0.032	Yes	17	0.4394	0.08465	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-8	0.08147	0.0369	0.032	Yes	16	0.05919	0.03425	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-9	0.208	0.1515	0.032	Yes	17	0.1797	0.04503	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)	B-115D	0.09241	0.07609	0.04	Yes	4	0.08425	0.003594	0	None	No	0.01	Param.
Lithium (mg/L)	B-120D	0.09244	0.06756	0.04	Yes	4	0.08	0.005477	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-47	0.07239	0.05682	0.04	Yes	17	0.06461	0.01243	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-48	0.1245	0.1056	0.04	Yes	17	0.1151	0.01511	0	None	No	0.01	Param.

# Confidence Intervals - All Results

Plant McDonough    Client: Southern Company    Data: McDonough AP    Printed 11/22/2022, 10:01 AM

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	6	0.0025	0.0007849	66.67	None	No	0.0155	NP (NDs)
Antimony (mg/L)	B-101D	0.00195	0.0001053	0.006	No	5	0.001422	0.00104	20	Kaplan-Meier	No	0.01	Param.
Antimony (mg/L)	B-102D	0.003	0.0016	0.006	No	6	0.002767	0.0005715	83.33	Kaplan-Meier	No	0.0155	NP (NDs)
Antimony (mg/L)	B-104D	0.00106	0.0005099	0.006	No	6	0.001507	0.001169	33.33	Kaplan-Meier	ln(x)	0.01	Param.
Antimony (mg/L)	B-106D	0.003	0.00048	0.006	No	5	0.002496	0.001127	80	None	No	0.031	NP (NDs)
Antimony (mg/L)	B-109D	0.004	0.00042	0.006	No	5	0.002252	0.001543	40	None	No	0.031	NP (selected)
Antimony (mg/L)	B-111D	0.003	0.0006	0.006	No	6	0.0026	0.0009798	83.33	None	No	0.0155	NP (NDs)
Antimony (mg/L)	B-120D	0.003	0.00029	0.006	No	4	0.002323	0.001355	75	None	No	0.0625	NP (NDs)
Antimony (mg/L)	B-56	0.003	0.0011	0.006	No	6	0.002683	0.0007757	83.33	None	No	0.0155	NP (NDs)
Antimony (mg/L)	B-62	0.003	0.00046	0.006	No	9	0.002718	0.0008467	88.89	None	No	0.002	NP (NDs)
Antimony (mg/L)	B-63	0.003	0.00066	0.006	No	6	0.00261	0.0009553	83.33	None	No	0.0155	NP (NDs)
Antimony (mg/L)	B-77	0.003	0.00036	0.006	No	8	0.002053	0.00131	62.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	B-93	0.003	0.00096	0.006	No	6	0.002393	0.0009501	66.67	None	No	0.0155	NP (NDs)
Antimony (mg/L)	DGWC-10	0.003	0.0021	0.006	No	16	0.002944	0.000225	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-12	0.003	0.0003	0.006	No	18	0.00285	0.0006364	94.44	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-14	0.003	0.0011	0.006	No	17	0.002888	0.0004608	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-15	0.003	0.00073	0.006	No	17	0.002709	0.0008233	88.24	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-17	0.003	0.00045	0.006	No	17	0.00285	0.0006185	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-19	0.003	0.00036	0.006	No	17	0.002845	0.0006403	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-2	0.003	0.0006	0.006	No	17	0.002859	0.0005821	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-21	0.003	0.0013	0.006	No	17	0.0029	0.0004123	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-23	0.003	0.0007	0.006	No	17	0.002865	0.0005578	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-4	0.003	0.0008	0.006	No	16	0.002554	0.0009598	81.25	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-47	0.003	0.0012	0.006	No	17	0.002894	0.0004366	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-48	0.003	0.0018	0.006	No	17	0.002776	0.00068	88.24	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-5	0.003	0.0015	0.006	No	16	0.002739	0.0007457	87.5	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-8	0.003	0.00046	0.006	No	16	0.002841	0.000635	93.75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	B-101D	0.005	0.0017	0.01	No	5	0.00434	0.001476	80	None	No	0.031	NP (NDs)
Arsenic (mg/L)	B-104D	0.003563	0.001776	0.01	No	6	0.003817	0.001393	50	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	B-109D	0.005	0.0026	0.01	No	5	0.00452	0.001073	80	None	No	0.031	NP (NDs)
Arsenic (mg/L)	B-111D	0.005	0.0022	0.01	No	6	0.003733	0.001408	50	None	No	0.0155	NP (normality)
Arsenic (mg/L)	B-115D	0.003454	0.001412	0.01	No	4	0.003075	0.00136	25	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	B-120D	0.005	0.0016	0.01	No	4	0.00415	0.0017	75	Kaplan-Meier	No	0.0625	NP (NDs)
Arsenic (mg/L)	B-56	0.004698	0.00253	0.01	No	6	0.003917	0.0009109	16.67	Kaplan-Meier	x^2	0.01	Param.
Arsenic (mg/L)	B-62	0.005	0.0033	0.01	No	9	0.004811	0.0005667	88.89	Kaplan-Meier	No	0.002	NP (NDs)
Arsenic (mg/L)	B-63	0.005	0.0022	0.01	No	6	0.004533	0.001143	83.33	None	No	0.0155	NP (NDs)
Arsenic (mg/L)	B-77	0.005	0.002	0.01	No	8	0.003425	0.001353	37.5	None	No	0.004	NP (normality)
Arsenic (mg/L)	B-82	0.005	0.003	0.01	No	8	0.00475	0.0007071	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	B-83	0.005	0.0014	0.01	No	7	0.004486	0.001361	85.71	None	No	0.008	NP (NDs)
Arsenic (mg/L)	B-93	0.002828	0.001247	0.01	No	6	0.0035	0.001702	50	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	DGWC-10	0.006739	0.003524	0.01	No	16	0.005131	0.002471	6.25	None	No	0.01	Param.
Arsenic (mg/L)	DGWC-12	0.005	0.00063	0.01	No	18	0.004513	0.001418	88.89	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-14	0.005	0.00039	0.01	No	17	0.004729	0.001118	94.12	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-15	0.005	0.0013	0.01	No	17	0.004267	0.001638	82.35	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-17	0.005	0.0011	0.01	No	17	0.003372	0.002014	58.82	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-19	0.00192	0.0009543	0.01	No	17	0.002421	0.001611	23.53	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	DGWC-2	0.005	0.0025	0.01	No	17	0.004458	0.001241	82.35	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-20	0.01651	0.008455	0.01	No	17	0.01248	0.006428	0	None	No	0.01	Param.
Arsenic (mg/L)	DGWC-22	0.005	0.001	0.01	No	17	0.004765	0.0009701	94.12	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-4	0.005	0.0008	0.01	No	16	0.003931	0.001916	75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-42	0.005	0.0011	0.01	No	17	0.004518	0.001363	88.24	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-47	0.002756	0.001467	0.01	No	17	0.002824	0.001533	23.53	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	DGWC-48	0.005	0.0012	0.01	No	17	0.003417	0.001968	58.82	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-5	0.008917	0.002832	0.01	No	16	0.007744	0.009484	12.5	None	ln(x)	0.01	Param.
Arsenic (mg/L)	DGWC-8	0.005	0.0012	0.01	No	16	0.003854	0.00177	68.75	None	No	0.01	NP (NDs)

# Confidence Intervals - All Results

Plant McDonough    Client: Southern Company    Data: McDonough AP    Printed 11/22/2022, 10:01 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
<b>Arsenic (mg/L)</b>	<b>DGWC-9</b>	<b>0.0284</b>	<b>0.01657</b>	<b>0.01</b>	<b>Yes</b>	<b>17</b>	<b>0.02248</b>	<b>0.009441</b>	<b>5.882</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Barium (mg/L)	B-100	0.02353	0.01731	2	No	6	0.02067	0.002875	0	None	x^4	0.01	Param.
Barium (mg/L)	B-101D	0.076	0.062	2	No	5	0.0682	0.007155	0	None	No	0.031	NP (normality)
Barium (mg/L)	B-102D	0.02392	0.01908	2	No	6	0.0215	0.001761	0	None	No	0.01	Param.
Barium (mg/L)	B-104D	0.026	0.021	2	No	6	0.0225	0.002074	0	None	No	0.0155	NP (normality)
Barium (mg/L)	B-106D	0.0222	0.0194	2	No	5	0.0208	0.0008367	0	None	No	0.01	Param.
Barium (mg/L)	B-107D	0.1456	0.04876	2	No	5	0.0972	0.02891	0	None	No	0.01	Param.
Barium (mg/L)	B-108D	0.06692	0.05148	2	No	5	0.0592	0.004604	0	None	No	0.01	Param.
Barium (mg/L)	B-109D	0.06745	0.02078	2	No	5	0.048	0.01528	0	None	x^2	0.01	Param.
Barium (mg/L)	B-111D	0.04313	0.02387	2	No	6	0.0335	0.007007	0	None	No	0.01	Param.
Barium (mg/L)	B-115D	0.01963	0.01187	2	No	4	0.01575	0.001708	0	None	No	0.01	Param.
Barium (mg/L)	B-120D	0.05224	0.009261	2	No	4	0.03075	0.009465	0	None	No	0.01	Param.
Barium (mg/L)	B-56	0.03046	0.02554	2	No	6	0.028	0.001789	0	None	No	0.01	Param.
Barium (mg/L)	B-62	0.02611	0.01944	2	No	9	0.02278	0.003456	0	None	No	0.01	Param.
Barium (mg/L)	B-63	0.03126	0.01807	2	No	6	0.02467	0.004803	0	None	No	0.01	Param.
Barium (mg/L)	B-66	0.02089	0.01578	2	No	6	0.01833	0.001862	0	None	No	0.01	Param.
Barium (mg/L)	B-77	0.1246	0.09166	2	No	8	0.1081	0.01553	0	None	No	0.01	Param.
Barium (mg/L)	B-82	0.03001	0.02027	2	No	7	0.02514	0.0041	0	None	No	0.01	Param.
Barium (mg/L)	B-83	0.044	0.02231	2	No	7	0.03257	0.01095	0	None	ln(x)	0.01	Param.
Barium (mg/L)	B-88	0.02288	0.015	2	No	6	0.01917	0.002858	0	None	x^2	0.01	Param.
Barium (mg/L)	B-93	0.0201	0.01423	2	No	6	0.01717	0.002137	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-10	0.02872	0.02237	2	No	16	0.02554	0.004884	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-11	0.06496	0.05421	2	No	16	0.05959	0.008265	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-12	0.03435	0.0249	2	No	18	0.03004	0.008517	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	DGWC-13	0.03235	0.02732	2	No	16	0.02888	0.006884	6.25	None	x^3	0.01	Param.
Barium (mg/L)	DGWC-14	0.06278	0.05846	2	No	17	0.06062	0.003446	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-15	0.04986	0.04375	2	No	17	0.04681	0.00487	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-17	0.05427	0.03952	2	No	17	0.04689	0.01177	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-19	0.02563	0.02224	2	No	17	0.02394	0.002698	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-2	0.02255	0.02124	2	No	17	0.02188	0.001054	0	None	x^2	0.01	Param.
Barium (mg/L)	DGWC-20	0.01578	0.009998	2	No	17	0.01289	0.004613	5.882	None	No	0.01	Param.
Barium (mg/L)	DGWC-21	0.0272	0.024	2	No	17	0.02573	0.001551	0	None	No	0.01	NP (normality)
Barium (mg/L)	DGWC-22	0.03693	0.03136	2	No	17	0.03415	0.004449	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-23	0.02336	0.01875	2	No	17	0.02118	0.003931	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	DGWC-4	0.03584	0.03236	2	No	16	0.0341	0.002676	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-42	0.01995	0.01598	2	No	17	0.01796	0.003173	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-47	0.01982	0.01629	2	No	17	0.01805	0.002812	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-48	0.0155	0.013	2	No	17	0.01371	0.0009565	0	None	No	0.01	NP (normality)
Barium (mg/L)	DGWC-5	0.01829	0.0167	2	No	15	0.01749	0.001173	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-8	0.03641	0.02521	2	No	16	0.03081	0.008607	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-9	0.01629	0.015	2	No	17	0.01565	0.001031	0	None	No	0.01	Param.
Beryllium (mg/L)	B-100	0.0005956	0.0003544	0.004	No	6	0.000475	0.00008781	0	None	No	0.01	Param.
Beryllium (mg/L)	B-101D	0.00008447	0.00004593	0.004	No	5	0.0000652	0.0000115	0	None	No	0.01	Param.
Beryllium (mg/L)	B-102D	0.001386	0.0009811	0.004	No	6	0.001183	0.0001472	0	None	No	0.01	Param.
Beryllium (mg/L)	B-104D	0.001558	0.001109	0.004	No	6	0.001333	0.0001633	0	None	No	0.01	Param.
Beryllium (mg/L)	B-106D	0.0001368	0.0001032	0.004	No	5	0.00012	0.00001	0	None	No	0.01	Param.
Beryllium (mg/L)	B-107D	0.00025	0.00005	0.004	No	5	0.00021	0.00008944	80	None	No	0.031	NP (NDs)
Beryllium (mg/L)	B-109D	0.00025	0.000059	0.004	No	5	0.0001078	0.00007994	20	None	No	0.031	NP (normality)
<b>Beryllium (mg/L)</b>	<b>B-115D</b>	<b>0.01285</b>	<b>0.009146</b>	<b>0.004</b>	<b>Yes</b>	<b>4</b>	<b>0.011</b>	<b>0.0008165</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Beryllium (mg/L)	B-120D	0.0011	0.00085	0.004	No	4	0.00098	0.0001388	0	None	No	0.0625	NP (normality)
Beryllium (mg/L)	B-56	0.00132	0.001113	0.004	No	6	0.001217	0.00007528	0	None	No	0.01	Param.
Beryllium (mg/L)	B-62	0.0001362	0.00009267	0.004	No	10	0.0001448	0.00005955	20	Kaplan-Meier	sqrt(x)	0.01	Param.
Beryllium (mg/L)	B-63	0.0004849	0.0002851	0.004	No	8	0.000385	0.00009426	12.5	None	No	0.01	Param.
Beryllium (mg/L)	B-77	0.0001381	0.00005882	0.004	No	8	0.000155	0.00008448	37.5	Kaplan-Meier	sqrt(x)	0.01	Param.
Beryllium (mg/L)	B-82	0.002028	0.0012	0.004	No	7	0.001614	0.0003485	0	None	No	0.01	Param.

# Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/22/2022, 10:01 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	B-83	0.0005687	0.0002575	0.004	No	7	0.0004071	0.0001421	0	None	sqrt(x)	0.01	Param.
Beryllium (mg/L)	B-88	0.003921	0.0003565	0.004	No	6	0.001872	0.00159	0	None	sqrt(x)	0.01	Param.
<b>Beryllium (mg/L)</b>	<b>B-92</b>	<b>0.02243</b>	<b>0.01277</b>	<b>0.004</b>	<b>Yes</b>	<b>5</b>	<b>0.0176</b>	<b>0.002881</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Beryllium (mg/L)</b>	<b>B-93</b>	<b>0.017</b>	<b>0.0069</b>	<b>0.004</b>	<b>Yes</b>	<b>7</b>	<b>0.0147</b>	<b>0.003582</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.008</b>	<b>NP (normality)</b>
Beryllium (mg/L)	B-97	0.001898	0.0005068	0.004	No	6	0.001508	0.000628	16.67	Kaplan-Meier	x^3	0.01	Param.
Beryllium (mg/L)	B-98	0.00087	0.000062	0.004	No	6	0.0004167	0.0003078	50	None	No	0.0155	NP (selected)
<b>Beryllium (mg/L)</b>	<b>DGWC-10</b>	<b>0.009022</b>	<b>0.005928</b>	<b>0.004</b>	<b>Yes</b>	<b>16</b>	<b>0.007475</b>	<b>0.002377</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Beryllium (mg/L)	DGWC-11	0.00025	0.00013	0.004	No	16	0.00027	0.0003324	43.75	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-12	0.00025	0.00016	0.004	No	18	0.0002777	0.0003179	16.67	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-13	0.00025	0.000073	0.004	No	16	0.0002519	0.000344	56.25	None	No	0.01	NP (NDs)
Beryllium (mg/L)	DGWC-15	0.0015	0.00022	0.004	No	17	0.0003105	0.0003101	88.24	None	No	0.01	NP (NDs)
Beryllium (mg/L)	DGWC-17	0.0006196	0.0004888	0.004	No	17	0.0005447	0.0001249	11.76	None	x^2	0.01	Param.
Beryllium (mg/L)	DGWC-19	0.002008	0.00171	0.004	No	17	0.001797	0.0004339	11.76	None	x^3	0.01	Param.
Beryllium (mg/L)	DGWC-20	0.005273	0.002486	0.004	No	17	0.003879	0.002224	11.76	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-21	0.0002	0.00015	0.004	No	17	0.0002488	0.0003249	11.76	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-22	0.00023	0.00014	0.004	No	17	0.0002506	0.0003242	11.76	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-23	0.0005	0.00038	0.004	No	17	0.0004912	0.0002804	11.76	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-4	0.00033	0.00019	0.004	No	16	0.0003069	0.0003249	12.5	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-42	0.002711	0.002083	0.004	No	17	0.002326	0.0006783	5.882	None	x^2	0.01	Param.
<b>Beryllium (mg/L)</b>	<b>DGWC-47</b>	<b>0.01243</b>	<b>0.009111</b>	<b>0.004</b>	<b>Yes</b>	<b>17</b>	<b>0.01077</b>	<b>0.002649</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Beryllium (mg/L)</b>	<b>DGWC-48</b>	<b>0.008951</b>	<b>0.007416</b>	<b>0.004</b>	<b>Yes</b>	<b>17</b>	<b>0.008218</b>	<b>0.001265</b>	<b>0</b>	<b>None</b>	<b>x^(1/3)</b>	<b>0.01</b>	<b>Param.</b>
<b>Beryllium (mg/L)</b>	<b>DGWC-5</b>	<b>0.008813</b>	<b>0.006512</b>	<b>0.004</b>	<b>Yes</b>	<b>16</b>	<b>0.007663</b>	<b>0.001768</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Beryllium (mg/L)	DGWC-8	0.002763	0.001459	0.004	No	16	0.002174	0.001104	6.25	None	sqrt(x)	0.01	Param.
<b>Beryllium (mg/L)</b>	<b>DGWC-9</b>	<b>0.005802</b>	<b>0.004939</b>	<b>0.004</b>	<b>Yes</b>	<b>17</b>	<b>0.005371</b>	<b>0.0006881</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cadmium (mg/L)	B-100	0.00059	0.00027	0.005	No	6	0.00038	0.0001628	0	None	No	0.0155	NP (normality)
Cadmium (mg/L)	B-101D	0.0005	0.00011	0.005	No	5	0.000422	0.0001744	80	None	No	0.031	NP (NDs)
Cadmium (mg/L)	B-102D	0.0009434	0.0006999	0.005	No	6	0.0008217	0.00008864	0	None	No	0.01	Param.
Cadmium (mg/L)	B-106D	0.0002669	0.0001181	0.005	No	5	0.000254	0.0001445	20	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	B-115D	0.0005302	0.00008476	0.005	No	4	0.0003075	0.00009811	0	None	No	0.01	Param.
Cadmium (mg/L)	B-120D	0.0013	0.00084	0.005	No	4	0.00107	0.0001013	0	None	No	0.01	Param.
Cadmium (mg/L)	B-56	0.0003025	0.0002375	0.005	No	6	0.00027	0.00002366	0	None	No	0.01	Param.
Cadmium (mg/L)	B-63	0.0005	0.00014	0.005	No	6	0.000345	0.0001734	50	None	No	0.0155	NP (normality)
Cadmium (mg/L)	B-82	0.0007742	0.0004201	0.005	No	7	0.0005971	0.0001491	0	None	No	0.01	Param.
Cadmium (mg/L)	B-83	0.0003836	0.000265	0.005	No	7	0.0003243	0.00004995	0	None	No	0.01	Param.
Cadmium (mg/L)	B-88	0.0065	0.00022	0.005	No	6	0.002553	0.002222	0	None	No	0.0155	NP (selected)
Cadmium (mg/L)	B-93	0.0008701	0.0007199	0.005	No	6	0.000795	0.00005468	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-10	0.001152	0.0007597	0.005	No	16	0.0009556	0.0003012	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-11	0.0005	0.00016	0.005	No	16	0.0004106	0.0001601	75	None	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-12	0.000327	0.0002145	0.005	No	18	0.0003878	0.0001897	27.78	Kaplan-Meier	sqrt(x)	0.01	Param.
Cadmium (mg/L)	DGWC-13	0.0005	0.0002	0.005	No	16	0.000455	0.0001249	87.5	Kaplan-Meier	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-15	0.001	0.00013	0.005	No	17	0.0004371	0.0002236	76.47	Kaplan-Meier	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-17	0.00033	0.00023	0.005	No	17	0.0002935	0.00008616	11.76	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-19	0.00041	0.00034	0.005	No	17	0.0004141	0.0001576	11.76	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-2	0.0005	0.00014	0.005	No	17	0.0003824	0.0002229	41.18	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-20	0.002291	0.00178	0.005	No	17	0.002035	0.0004076	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-21	0.0006131	0.0003396	0.005	No	17	0.00058	0.0002051	17.65	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	DGWC-22	0.0006868	0.0004708	0.005	No	17	0.0005788	0.0001724	11.76	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-23	0.0003	0.00018	0.005	No	17	0.0002788	0.0002044	11.76	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-4	0.0008536	0.0006414	0.005	No	16	0.0007475	0.0001631	12.5	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-42	0.001003	0.0004734	0.005	No	17	0.0007894	0.0005327	11.76	None	x^(1/3)	0.01	Param.
Cadmium (mg/L)	DGWC-47	0.002104	0.001272	0.005	No	17	0.001688	0.0006642	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-48	0.0036	0.0026	0.005	No	17	0.003435	0.001595	0	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-5	0.0008361	0.0004889	0.005	No	16	0.0006625	0.0002669	12.5	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-8	0.002443	0.001819	0.005	No	16	0.002131	0.0004799	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-9	0.0006783	0.000519	0.005	No	17	0.0006024	0.0001347	11.76	None	sqrt(x)	0.01	Param.



# Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/22/2022, 10:01 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chromium (mg/L)	B-100	0.005	0.00057	0.1	No	6	0.003585	0.002195	66.67	None	No	0.0155	NP (NDs)
Chromium (mg/L)	B-101D	0.005	0.0014	0.1	No	5	0.00428	0.00161	80	None	No	0.031	NP (NDs)
Chromium (mg/L)	B-104D	0.005	0.0011	0.1	No	6	0.00435	0.001592	83.33	None	No	0.0155	NP (NDs)
Chromium (mg/L)	B-109D	0.005	0.00061	0.1	No	5	0.004122	0.001963	80	None	No	0.031	NP (NDs)
Chromium (mg/L)	B-56	0.005	0.00059	0.1	No	6	0.003065	0.00214	50	None	No	0.0155	NP (normality)
Chromium (mg/L)	B-62	0.005	0.00098	0.1	No	9	0.004553	0.00134	88.89	None	No	0.002	NP (NDs)
Chromium (mg/L)	B-63	0.005	0.00064	0.1	No	6	0.004273	0.00178	83.33	None	No	0.0155	NP (NDs)
Chromium (mg/L)	B-77	0.005	0.00068	0.1	No	8	0.003057	0.002123	50	None	No	0.004	NP (normality)
Chromium (mg/L)	B-82	0.005	0.0011	0.1	No	7	0.004443	0.001474	85.71	None	No	0.008	NP (NDs)
Chromium (mg/L)	B-83	0.005285	0.001944	0.1	No	7	0.003614	0.001406	0	None	No	0.01	Param.
Chromium (mg/L)	B-88	0.005	0.00085	0.1	No	6	0.003158	0.002036	50	None	No	0.0155	NP (normality)
Chromium (mg/L)	B-93	0.005	0.00057	0.1	No	6	0.002888	0.00232	50	None	No	0.0155	NP (normality)
Chromium (mg/L)	DGWC-10	0.005	0.00078	0.1	No	16	0.002412	0.002073	37.5	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-11	0.005	0.00061	0.1	No	16	0.003899	0.001969	75	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-12	0.005	0.00099	0.1	No	18	0.004552	0.001305	88.89	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-13	0.005	0.00074	0.1	No	16	0.003931	0.001914	75	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-15	0.01	0.0048	0.1	No	17	0.004491	0.00225	76.47	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-17	0.0033	0.0024	0.1	No	17	0.002994	0.0008295	11.76	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-19	0.0031	0.0024	0.1	No	17	0.003329	0.001911	17.65	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-2	0.005	0.0005	0.1	No	17	0.003422	0.002203	64.71	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-20	0.005	0.0015	0.1	No	17	0.003265	0.002306	35.29	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-21	0.005	0.0006	0.1	No	17	0.003526	0.002084	64.71	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-22	0.005	0.0012	0.1	No	17	0.004776	0.0009216	94.12	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-23	0.005	0.0005	0.1	No	17	0.002518	0.002154	41.18	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-4	0.005	0.0005	0.1	No	16	0.004719	0.001125	93.75	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-42	0.005	0.0008	0.1	No	17	0.003308	0.002116	58.82	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-47	0.005	0.0007	0.1	No	17	0.004747	0.001043	94.12	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-48	0.005	0.0007	0.1	No	17	0.004476	0.001479	88.24	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-5	0.005	0.00045	0.1	No	16	0.004716	0.001137	93.75	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-8	0.005	0.00086	0.1	No	16	0.003592	0.001943	62.5	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-9	0.0057	0.00061	0.1	No	17	0.003635	0.002069	58.82	None	No	0.01	NP (NDs)
Cobalt (mg/L)	B-100	0.087	0.028	0.032	No	8	0.05125	0.02684	0	None	No	0.004	NP (normality)
Cobalt (mg/L)	B-101D	0.003812	0.002188	0.032	No	5	0.003	0.0004848	0	None	No	0.01	Param.
Cobalt (mg/L)	B-102D	0.01509	0.01225	0.032	No	6	0.01367	0.001033	0	None	No	0.01	Param.
<b>Cobalt (mg/L)</b>	<b>B-104D</b>	<b>0.2056</b>	<b>0.09109</b>	<b>0.032</b>	<b>Yes</b>	<b>6</b>	<b>0.1483</b>	<b>0.04167</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	B-106D	0.0009444	0.0005169	0.032	No	5	0.001426	0.0009865	40	Kaplan-Meier	ln(x)	0.01	Param.
Cobalt (mg/L)	B-107D	0.001753	0.0003352	0.032	No	5	0.001044	0.000423	0	None	No	0.01	Param.
Cobalt (mg/L)	B-108D	0.004907	0.0001737	0.032	No	5	0.001962	0.001654	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	B-111D	0.0008129	0.0004143	0.032	No	6	0.001232	0.0009904	33.33	Kaplan-Meier	ln(x)	0.01	Param.
<b>Cobalt (mg/L)</b>	<b>B-115D</b>	<b>0.3375</b>	<b>0.1875</b>	<b>0.032</b>	<b>Yes</b>	<b>4</b>	<b>0.2625</b>	<b>0.03304</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	B-120D	0.02518	0.000009622	0.032	No	4	0.007425	0.006488	0	None	sqrt(x)	0.01	Param.
<b>Cobalt (mg/L)</b>	<b>B-56</b>	<b>0.05346</b>	<b>0.04121</b>	<b>0.032</b>	<b>Yes</b>	<b>6</b>	<b>0.04733</b>	<b>0.004457</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	B-62	0.0025	0.00031	0.032	No	10	0.002061	0.0009255	80	None	No	0.011	NP (NDs)
<b>Cobalt (mg/L)</b>	<b>B-63</b>	<b>0.05067</b>	<b>0.03805</b>	<b>0.032</b>	<b>Yes</b>	<b>7</b>	<b>0.04436</b>	<b>0.005313</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	B-66	0.01356	0.004416	0.032	No	7	0.008986	0.003847	14.29	None	No	0.01	Param.
Cobalt (mg/L)	B-77	0.002648	0.0007123	0.032	No	8	0.001987	0.0008806	37.5	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	B-82	0.006341	0.001171	0.032	No	8	0.003756	0.002439	0	None	No	0.01	Param.
Cobalt (mg/L)	B-83	0.01862	0.007148	0.032	No	7	0.01289	0.004831	0	None	No	0.01	Param.
Cobalt (mg/L)	B-88	0.01587	0.001019	0.032	No	7	0.007364	0.008753	0	None	ln(x)	0.01	Param.
<b>Cobalt (mg/L)</b>	<b>B-93</b>	<b>0.06739</b>	<b>0.05889</b>	<b>0.032</b>	<b>Yes</b>	<b>7</b>	<b>0.06314</b>	<b>0.003579</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	B-98	0.0048	0.00063	0.032	No	5	0.002586	0.001479	60	None	No	0.031	NP (NDs)
<b>Cobalt (mg/L)</b>	<b>DGWC-10</b>	<b>0.193</b>	<b>0.076</b>	<b>0.032</b>	<b>Yes</b>	<b>16</b>	<b>0.1441</b>	<b>0.05294</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>NP (normality)</b>
Cobalt (mg/L)	DGWC-11	0.0025	0.00065	0.032	No	16	0.001452	0.0008668	37.5	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-12	0.018	0.0025	0.032	No	18	0.009611	0.01017	11.11	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-13	0.0025	0.0005	0.032	No	16	0.002111	0.0008361	81.25	None	No	0.01	NP (NDs)

# Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/22/2022, 10:01 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cobalt (mg/L)	DGWC-15	0.0025	0.0016	0.032	No	17	0.003406	0.005607	5.882	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-17	0.02641	0.01852	0.032	No	17	0.02246	0.006302	5.882	None	No	0.01	Param.
<b>Cobalt (mg/L)</b>	<b>DGWC-19</b>	<b>0.05329</b>	<b>0.04968</b>	<b>0.032</b>	<b>Yes</b>	<b>17</b>	<b>0.05148</b>	<b>0.002882</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	DGWC-2	0.02169	0.007709	0.032	No	17	0.01594	0.01179	0	None	sqrt(x)	0.01	Param.
<b>Cobalt (mg/L)</b>	<b>DGWC-20</b>	<b>0.6845</b>	<b>0.4878</b>	<b>0.032</b>	<b>Yes</b>	<b>17</b>	<b>0.5919</b>	<b>0.1635</b>	<b>0</b>	<b>None</b>	<b>sqrt(x)</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	DGWC-21	0.009637	0.008194	0.032	No	17	0.008529	0.002021	11.76	None	x^4	0.01	Param.
Cobalt (mg/L)	DGWC-22	0.009817	0.007638	0.032	No	17	0.008547	0.002138	11.76	None	x^2	0.01	Param.
Cobalt (mg/L)	DGWC-23	0.0025	0.00043	0.032	No	17	0.00168	0.001338	52.94	None	No	0.01	NP (NDs)
Cobalt (mg/L)	DGWC-4	0.0021	0.0015	0.032	No	16	0.002	0.0008438	12.5	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-42	0.03784	0.01411	0.032	No	17	0.02798	0.02053	0	None	sqrt(x)	0.01	Param.
<b>Cobalt (mg/L)</b>	<b>DGWC-47</b>	<b>0.369</b>	<b>0.2475</b>	<b>0.032</b>	<b>Yes</b>	<b>17</b>	<b>0.3083</b>	<b>0.09696</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Cobalt (mg/L)</b>	<b>DGWC-48</b>	<b>0.4925</b>	<b>0.3864</b>	<b>0.032</b>	<b>Yes</b>	<b>17</b>	<b>0.4394</b>	<b>0.08465</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	DGWC-5	0.04	0.0209	0.032	No	16	0.0277	0.01036	0	None	No	0.01	NP (normality)
<b>Cobalt (mg/L)</b>	<b>DGWC-8</b>	<b>0.08147</b>	<b>0.0369</b>	<b>0.032</b>	<b>Yes</b>	<b>16</b>	<b>0.05919</b>	<b>0.03425</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Cobalt (mg/L)</b>	<b>DGWC-9</b>	<b>0.208</b>	<b>0.1515</b>	<b>0.032</b>	<b>Yes</b>	<b>17</b>	<b>0.1797</b>	<b>0.04503</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Combined Radium 226 + 228 (pCi/L)	B-100	1.3	0.2178	5	No	6	0.7588	0.3938	0	None	No	0.01	Param.
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	1.803	0.2022	5	No	5	1.002	0.4775	0	None	No	0.01	Param.
<b>Combined Radium 226 + 228 (pCi/L)</b>	<b>B-104D</b>	<b>18.51</b>	<b>8.768</b>	<b>5</b>	<b>Yes</b>	<b>5</b>	<b>13.64</b>	<b>2.907</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
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.
<b>Combined Radium 226 + 228 (pCi/L)</b>	<b>B-109D</b>	<b>18.75</b>	<b>6.021</b>	<b>5</b>	<b>Yes</b>	<b>4</b>	<b>12.39</b>	<b>2.804</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
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	1.964	1.348	5	No	8	1.656	0.2907	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	2.525	0.5185	5	No	6	1.416	0.7269	0	None	sqrt(x)	0.01	Param.
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	1.199	0.1069	5	No	6	0.6532	0.3977	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-88	3.228	0.04599	5	No	5	1.637	0.9496	0	None	No	0.01	Param.
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-100	0.1	0.072	4	No	6	0.09533	0.01143	83.33	None	No	0.0155	NP (NDs)
Fluoride, total (mg/L)	B-101D	0.1	0.051	4	No	5	0.071	0.02603	20	None	No	0.031	NP (normality)

# Confidence Intervals - All Results

Plant McDonough    Client: Southern Company    Data: McDonough AP    Printed 11/22/2022, 10:01 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride, total (mg/L)	B-102D	0.1133	0.06032	4	No	6	0.08683	0.0193	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-104D	0.4824	0.2676	4	No	6	0.375	0.07817	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-106D	0.07945	0.04005	4	No	5	0.0678	0.0215	20	Kaplan-Meier	No	0.01	Param.
Fluoride, total (mg/L)	B-107D	0.1	0.053	4	No	5	0.0906	0.02102	80	Kaplan-Meier	No	0.031	NP (NDs)
Fluoride, total (mg/L)	B-108D	0.1	0.061	4	No	5	0.0922	0.01744	80	Kaplan-Meier	No	0.031	NP (NDs)
Fluoride, total (mg/L)	B-109D	0.1807	0.1073	4	No	5	0.144	0.02191	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-111D	0.5548	0.2752	4	No	6	0.415	0.1017	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-115D	1.484	0.4086	4	No	4	0.8025	0.2229	0	None	ln(x)	0.01	Param.
Fluoride, total (mg/L)	B-120D	0.1	0.057	4	No	4	0.08925	0.0215	75	None	No	0.0625	NP (NDs)
Fluoride, total (mg/L)	B-56	0.3162	0.1032	4	No	6	0.2097	0.07752	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-62	0.43	0.093	4	No	8	0.1678	0.1145	0	None	No	0.004	NP (normality)
Fluoride, total (mg/L)	B-63	0.4452	0.06354	4	No	5	0.214	0.1352	0	None	x^(1/3)	0.01	Param.
Fluoride, total (mg/L)	B-66	0.5195	0.01253	4	No	5	0.266	0.1513	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-77	0.1	0.078	4	No	7	0.09343	0.009981	57.14	None	No	0.008	NP (NDs)
Fluoride, total (mg/L)	B-82	0.1527	0.03333	4	No	6	0.1052	0.05017	50	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	B-83	0.1049	0.04706	4	No	7	0.08543	0.02668	28.57	Kaplan-Meier	No	0.01	Param.
Fluoride, total (mg/L)	B-88	0.1	0.054	4	No	6	0.09233	0.01878	83.33	Kaplan-Meier	No	0.0155	NP (NDs)
Fluoride, total (mg/L)	B-93	0.4121	0.2912	4	No	6	0.3517	0.04401	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-10	1.825	1.321	4	No	18	1.573	0.4167	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-11	0.1	0.052	4	No	17	0.08059	0.02524	58.82	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-12	0.2	0.078	4	No	18	0.1506	0.1381	33.33	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	DGWC-13	0.1896	0.08406	4	No	17	0.1478	0.1056	5.882	None	x^(1/3)	0.01	Param.
Fluoride, total (mg/L)	DGWC-14	0.1	0.059	4	No	18	0.08517	0.02588	66.67	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-15	0.11	0.079	4	No	18	0.1028	0.04206	61.11	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-17	0.31	0.084	4	No	18	0.1924	0.1496	16.67	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	DGWC-19	0.449	0.1721	4	No	18	0.3489	0.3011	5.556	None	x^(1/3)	0.01	Param.
Fluoride, total (mg/L)	DGWC-2	0.28	0.053	4	No	18	0.1368	0.1501	38.89	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	DGWC-20	0.9663	0.4549	4	No	18	0.7106	0.4226	5.556	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-21	0.14	0.079	4	No	18	0.1055	0.06279	61.11	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-22	0.12	0.09	4	No	18	0.1147	0.06261	50	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	DGWC-23	0.2073	0.0939	4	No	18	0.1763	0.1487	11.11	None	ln(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-4	0.17	0.082	4	No	18	0.1302	0.1679	66.67	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-42	0.1	0.06	4	No	18	0.09333	0.02058	88.89	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-47	1.081	0.52	4	No	18	0.8006	0.4638	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-48	1.076	0.5784	4	No	18	0.8572	0.4371	0	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-5	0.6408	0.2247	4	No	17	0.5271	0.4418	5.882	None	ln(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-8	0.3171	0.09257	4	No	17	0.2635	0.2284	17.65	Kaplan-Meier	x^(1/3)	0.01	Param.
Fluoride, total (mg/L)	DGWC-9	1.352	0.965	4	No	18	1.158	0.3195	0	None	No	0.01	Param.
Lead (mg/L)	B-100	0.001	0.000088	0.015	No	6	0.0005797	0.0004622	50	None	No	0.0155	NP (normality)
Lead (mg/L)	B-101D	0.001	0.000065	0.015	No	5	0.000813	0.0004181	80	None	No	0.031	NP (NDs)
Lead (mg/L)	B-102D	0.001	0.000037	0.015	No	6	0.0005243	0.0005211	50	None	No	0.0155	NP (normality)
Lead (mg/L)	B-104D	0.001	0.000051	0.015	No	6	0.0008418	0.0003874	83.33	None	No	0.0155	NP (NDs)
Lead (mg/L)	B-107D	0.001	0.000044	0.015	No	5	0.0008088	0.0004275	80	None	No	0.031	NP (NDs)
Lead (mg/L)	B-111D	0.001	0.000051	0.015	No	6	0.0006848	0.0004883	66.67	None	No	0.0155	NP (NDs)
Lead (mg/L)	B-115D	0.001	0.00032	0.015	No	4	0.00083	0.00034	75	None	No	0.0625	NP (NDs)
Lead (mg/L)	B-120D	0.001	0.00019	0.015	No	4	0.0007975	0.000405	75	None	No	0.0625	NP (NDs)
Lead (mg/L)	B-56	0.001	0.000091	0.015	No	6	0.0005685	0.0004749	50	None	No	0.0155	NP (normality)
Lead (mg/L)	B-63	0.001	0.000047	0.015	No	6	0.0006867	0.0004855	66.67	None	No	0.0155	NP (NDs)
Lead (mg/L)	B-77	0.0016	0.00021	0.015	No	8	0.0008025	0.0004838	50	None	No	0.004	NP (selected)
Lead (mg/L)	B-82	0.001	0.000059	0.015	No	7	0.0006184	0.0004768	57.14	None	No	0.008	NP (NDs)
Lead (mg/L)	B-83	0.001	0.000065	0.015	No	7	0.0006107	0.0004624	42.86	None	No	0.008	NP (normality)
Lead (mg/L)	B-88	0.006095	0.0002108	0.015	No	6	0.002893	0.004503	33.33	Kaplan-Meier	ln(x)	0.01	Param.
Lead (mg/L)	B-93	0.001	0.00012	0.015	No	6	0.0007067	0.0004544	66.67	Kaplan-Meier	No	0.0155	NP (NDs)
Lead (mg/L)	DGWC-10	0.001	0.00011	0.015	No	16	0.0006739	0.0004362	62.5	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-11	0.001	0.0001	0.015	No	16	0.0007187	0.0004314	68.75	None	No	0.01	NP (NDs)

# Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/22/2022, 10:01 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	DGWC-12	0.001	0.00011	0.015	No	18	0.0009006	0.0002894	88.89	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-13	0.001	0.0002	0.015	No	16	0.0008936	0.0002913	87.5	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-14	0.001	0.000096	0.015	No	17	0.0008366	0.0003639	82.35	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-15	0.0012	0.0001	0.015	No	17	0.0007495	0.0004302	64.71	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-17	0.001	0.0001	0.015	No	17	0.0006349	0.0004504	58.82	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-19	0.001	0.00016	0.015	No	17	0.0007405	0.000417	70.59	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-2	0.001	0.00009	0.015	No	17	0.0005726	0.0004676	52.94	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-20	0.001	0.00044	0.015	No	17	0.0007628	0.0003566	64.71	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-21	0.001	0.00015	0.015	No	17	0.0006627	0.0004214	58.82	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-23	0.001	0.000066	0.015	No	17	0.0009451	0.0002265	94.12	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-4	0.001	0.00012	0.015	No	16	0.0007793	0.0003958	75	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-42	0.0004369	0.0001603	0.015	No	17	0.0008365	0.001151	29.41	Kaplan-Meier	ln(x)	0.01	Param.
Lead (mg/L)	DGWC-47	0.001	0.0006	0.015	No	17	0.001071	0.001035	35.29	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-48	0.002	0.00095	0.015	No	17	0.001588	0.001115	11.76	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-5	0.001	0.000063	0.015	No	16	0.0006486	0.0006457	43.75	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-8	0.001	0.00011	0.015	No	16	0.0006739	0.0004052	56.25	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-9	0.001	0.00028	0.015	No	17	0.0008588	0.0003153	82.35	None	No	0.01	NP (NDs)
Lithium (mg/L)	B-100	0.002815	0.001518	0.04	No	6	0.002167	0.0004719	0	None	No	0.01	Param.
Lithium (mg/L)	B-101D	0.01506	0.008456	0.04	No	5	0.01176	0.001972	0	None	No	0.01	Param.
Lithium (mg/L)	B-102D	0.01477	0.01156	0.04	No	6	0.01317	0.001169	0	None	No	0.01	Param.
Lithium (mg/L)	B-104D	0.0403	0.0357	0.04	No	6	0.038	0.001673	0	None	No	0.01	Param.
Lithium (mg/L)	B-106D	0.005805	0.004811	0.04	No	5	0.00534	0.000313	0	None	x^3	0.01	Param.
Lithium (mg/L)	B-107D	0.01704	0.01336	0.04	No	5	0.0152	0.001095	0	None	No	0.01	Param.
Lithium (mg/L)	B-108D	0.01668	0.01332	0.04	No	5	0.015	0.001	0	None	No	0.01	Param.
Lithium (mg/L)	B-109D	0.01605	0.01195	0.04	No	5	0.014	0.001225	0	None	No	0.01	Param.
Lithium (mg/L)	B-111D	0.02962	0.01871	0.04	No	6	0.02417	0.003971	0	None	No	0.01	Param.
<b>Lithium (mg/L)</b>	<b>B-115D</b>	<b>0.09241</b>	<b>0.07609</b>	<b>0.04</b>	<b>Yes</b>	<b>4</b>	<b>0.08425</b>	<b>0.003594</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Lithium (mg/L)</b>	<b>B-120D</b>	<b>0.09244</b>	<b>0.06756</b>	<b>0.04</b>	<b>Yes</b>	<b>4</b>	<b>0.08</b>	<b>0.005477</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Lithium (mg/L)	B-56	0.006056	0.004944	0.04	No	6	0.0055	0.000405	0	None	No	0.01	Param.
Lithium (mg/L)	B-62	0.015	0.0078	0.04	No	9	0.009278	0.002213	11.11	None	No	0.002	NP (normality)
Lithium (mg/L)	B-63	0.015	0.0062	0.04	No	7	0.007714	0.003231	14.29	None	No	0.008	NP (normality)
Lithium (mg/L)	B-66	0.015	0.00073	0.04	No	6	0.01262	0.005826	83.33	None	No	0.0155	NP (NDs)
Lithium (mg/L)	B-77	0.003715	0.001092	0.04	No	8	0.005531	0.005977	25	Kaplan-Meier	ln(x)	0.01	Param.
Lithium (mg/L)	B-82	0.0039	0.00078	0.04	No	7	0.001814	0.001352	0	None	No	0.008	NP (normality)
Lithium (mg/L)	B-83	0.003738	0.001605	0.04	No	7	0.002671	0.0008976	0	None	No	0.01	Param.
Lithium (mg/L)	B-88	0.0202	0.0009269	0.04	No	6	0.007833	0.0106	0	None	ln(x)	0.01	Param.
Lithium (mg/L)	B-93	0.013	0.011	0.04	No	6	0.01183	0.0009832	0	None	No	0.0155	NP (normality)
Lithium (mg/L)	DGWC-10	0.006599	0.002973	0.04	No	16	0.005375	0.003986	12.5	None	ln(x)	0.01	Param.
Lithium (mg/L)	DGWC-11	0.0028	0.0019	0.04	No	16	0.003069	0.003198	6.25	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-12	0.015	0.0011	0.04	No	18	0.01034	0.006786	66.67	None	No	0.01	NP (NDs)
Lithium (mg/L)	DGWC-13	0.004	0.0029	0.04	No	16	0.00475	0.004016	12.5	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-14	0.0044	0.0034	0.04	No	17	0.004671	0.002882	5.882	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-15	0.0064	0.0057	0.04	No	16	0.006144	0.0008469	0	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-17	0.015	0.0011	0.04	No	17	0.01009	0.006856	64.71	None	No	0.01	NP (NDs)
Lithium (mg/L)	DGWC-19	0.0034	0.0031	0.04	No	17	0.003894	0.00287	5.882	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-2	0.0807	0.023	0.04	No	17	0.04594	0.0297	5.882	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-20	0.012	0.0021	0.04	No	17	0.006924	0.005464	5.882	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-21	0.0065	0.0057	0.04	No	17	0.006535	0.002217	5.882	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-22	0.0046	0.0036	0.04	No	17	0.004653	0.002705	5.882	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-23	0.014	0.0039	0.04	No	17	0.01075	0.01733	5.882	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-4	0.0037	0.0025	0.04	No	16	0.003781	0.003031	6.25	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-42	0.01233	0.009624	0.04	No	17	0.01098	0.002158	5.882	None	No	0.01	Param.
<b>Lithium (mg/L)</b>	<b>DGWC-47</b>	<b>0.07239</b>	<b>0.05682</b>	<b>0.04</b>	<b>Yes</b>	<b>17</b>	<b>0.06461</b>	<b>0.01243</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Lithium (mg/L)</b>	<b>DGWC-48</b>	<b>0.1245</b>	<b>0.1056</b>	<b>0.04</b>	<b>Yes</b>	<b>17</b>	<b>0.1151</b>	<b>0.01511</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Lithium (mg/L)	DGWC-5	0.008091	0.004567	0.04	No	16	0.006481	0.002885	6.25	None	sqrt(x)	0.01	Param.

# Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/22/2022, 10:01 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	DGWC-8	0.00675	0.004185	0.04	No	16	0.005725	0.002765	6.25	None	ln(x)	0.01	Param.
Lithium (mg/L)	DGWC-9	0.02895	0.02357	0.04	No	17	0.02626	0.004292	5.882	None	No	0.01	Param.
Mercury (mg/L)	B-100	0.0002	0.00011	0.002	No	5	0.000182	0.00004025	80	None	No	0.031	NP (NDs)
Mercury (mg/L)	B-101D	0.0002	0.00014	0.002	No	5	0.000188	0.00002683	80	None	No	0.031	NP (NDs)
Mercury (mg/L)	B-104D	0.0002	0.000079	0.002	No	6	0.0001798	0.0000494	83.33	None	No	0.0155	NP (NDs)
Mercury (mg/L)	B-107D	0.0002	0.00016	0.002	No	5	0.000192	0.00001789	80	None	No	0.031	NP (NDs)
Mercury (mg/L)	B-108D	0.0002	0.00014	0.002	No	5	0.000188	0.00002683	80	None	No	0.031	NP (NDs)
Mercury (mg/L)	B-111D	0.0002	0.000094	0.002	No	6	0.0001823	0.00004327	83.33	None	No	0.0155	NP (NDs)
Mercury (mg/L)	B-56	0.0002	0.00016	0.002	No	6	0.0001933	0.00001633	83.33	None	No	0.0155	NP (NDs)
Mercury (mg/L)	B-82	0.0002	0.00011	0.002	No	7	0.0001871	0.00003402	85.71	None	No	0.008	NP (NDs)
Mercury (mg/L)	B-88	0.0002	0.0001	0.002	No	6	0.0001683	0.00004916	66.67	None	No	0.0155	NP (NDs)
Mercury (mg/L)	B-93	0.0002543	0.00009374	0.002	No	6	0.0001847	0.00006049	16.67	Kaplan-Meier	No	0.01	Param.
Mercury (mg/L)	DGWC-10	0.0002	0.000081	0.002	No	16	0.0001701	0.00005368	75	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-11	0.0002	0.00008	0.002	No	16	0.0001744	0.00005537	81.25	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-12	0.0002	0.00008	0.002	No	18	0.0001592	0.00006243	66.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-13	0.0002	0.00009	0.002	No	16	0.000185	0.00004115	87.5	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-14	0.0002	0.00008	0.002	No	17	0.0001759	0.00005397	82.35	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-15	0.0002	0.00006	0.002	No	17	0.0001918	0.00003395	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-17	0.0002	0.000082	0.002	No	17	0.0001474	0.0000627	52.94	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-19	0.0002	0.00009	0.002	No	17	0.0001753	0.0000558	82.35	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-2	0.00064	0.000083	0.002	No	17	0.0002043	0.000122	76.47	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-20	0.0002	0.00009	0.002	No	17	0.0001794	0.00004589	82.35	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-21	0.0002	0.00008	0.002	No	17	0.0001629	0.0000608	70.59	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-22	0.0002	0.00011	0.002	No	17	0.0001715	0.00005465	76.47	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-23	0.0001899	0.0001266	0.002	No	17	0.0001871	0.00005382	35.29	Kaplan-Meier	x^(1/3)	0.01	Param.
Mercury (mg/L)	DGWC-4	0.00022	0.00013	0.002	No	16	0.0002064	0.0001111	68.75	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-42	0.0002	0.00004	0.002	No	17	0.0001906	0.00003881	94.12	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-48	0.0002	0.00006	0.002	No	17	0.0001918	0.00003395	94.12	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-5	0.0002509	0.0001313	0.002	No	16	0.0001996	0.0001117	12.5	None	x^(1/3)	0.01	Param.
Mercury (mg/L)	DGWC-8	0.0002	0.000079	0.002	No	16	0.0001557	0.00006126	62.5	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-9	0.0002	0.00013	0.002	No	17	0.000186	0.00008263	41.18	None	No	0.01	NP (normality)
Molybdenum (mg/L)	B-101D	0.01	0.0022	0.1	No	5	0.00844	0.003488	80	None	No	0.031	NP (NDs)
Molybdenum (mg/L)	B-102D	0.01	0.0015	0.1	No	6	0.008583	0.00347	83.33	None	No	0.0155	NP (NDs)
Molybdenum (mg/L)	B-104D	0.01	0.00083	0.1	No	6	0.007005	0.004641	66.67	None	No	0.0155	NP (NDs)
Molybdenum (mg/L)	B-109D	0.002187	0.0007334	0.1	No	5	0.00146	0.0004336	0	None	No	0.01	Param.
Molybdenum (mg/L)	B-111D	0.013	0.0052	0.1	No	6	0.007117	0.002969	0	None	No	0.0155	NP (normality)
Molybdenum (mg/L)	B-120D	0.01	0.00089	0.1	No	4	0.007722	0.004555	75	None	No	0.0625	NP (NDs)
Molybdenum (mg/L)	B-66	0.01	0.0015	0.1	No	6	0.007217	0.004313	66.67	None	No	0.0155	NP (NDs)
Molybdenum (mg/L)	B-88	0.01	0.0012	0.1	No	6	0.007067	0.004544	66.67	None	No	0.0155	NP (NDs)
Molybdenum (mg/L)	DGWC-13	0.02242	0.01192	0.1	No	16	0.01833	0.009341	0	None	ln(x)	0.01	Param.
Molybdenum (mg/L)	DGWC-2	0.01	0.0018	0.1	No	17	0.004747	0.004019	35.29	None	No	0.01	NP (normality)
Molybdenum (mg/L)	DGWC-23	0.01082	0.007024	0.1	No	17	0.008924	0.003032	0	None	No	0.01	Param.
Molybdenum (mg/L)	DGWC-4	0.006923	0.004615	0.1	No	16	0.005769	0.001774	6.25	None	No	0.01	Param.
Selenium (mg/L)	B-100	0.005	0.0019	0.05	No	6	0.004483	0.001266	83.33	None	No	0.0155	NP (NDs)
Selenium (mg/L)	B-101D	0.005	0.0031	0.05	No	5	0.00462	0.0008497	80	None	No	0.031	NP (NDs)
Selenium (mg/L)	B-104D	0.005	0.0016	0.05	No	6	0.004117	0.001448	66.67	None	No	0.0155	NP (NDs)
Selenium (mg/L)	B-108D	0.005	0.0016	0.05	No	5	0.00432	0.001521	80	None	No	0.031	NP (NDs)
Selenium (mg/L)	B-111D	0.005	0.0022	0.05	No	6	0.004533	0.001143	83.33	None	No	0.0155	NP (NDs)
Selenium (mg/L)	B-115D	0.007751	0.0006488	0.05	No	4	0.0042	0.001564	0	None	No	0.01	Param.
Selenium (mg/L)	B-120D	0.00459	0.0002602	0.05	No	4	0.002425	0.0009535	0	None	No	0.01	Param.
Selenium (mg/L)	B-56	0.02364	0.005489	0.05	No	6	0.01343	0.00791	0	None	x^(1/3)	0.01	Param.
Selenium (mg/L)	B-77	0.005	0.0017	0.05	No	8	0.004587	0.001167	87.5	None	No	0.004	NP (NDs)
Selenium (mg/L)	B-82	0.005	0.0016	0.05	No	7	0.003671	0.001664	57.14	None	No	0.008	NP (NDs)
Selenium (mg/L)	B-83	0.02829	0.01234	0.05	No	7	0.02031	0.006715	0	None	No	0.01	Param.
Selenium (mg/L)	B-88	0.002986	0.001427	0.05	No	6	0.0029	0.001235	16.67	Kaplan-Meier	No	0.01	Param.

# Confidence Intervals - All Results

Plant McDonough    Client: Southern Company    Data: McDonough AP    Printed 11/22/2022, 10:01 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Selenium (mg/L)	B-93	0.02992	0.003804	0.05	No	6	0.01513	0.01105	0	None	sqrt(x)	0.01	Param.
Selenium (mg/L)	DGWC-10	0.04891	0.02113	0.05	No	16	0.03502	0.02135	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-12	0.005	0.0019	0.05	No	18	0.00405	0.002157	61.11	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-13	0.004355	0.002125	0.05	No	16	0.004394	0.002313	18.75	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	DGWC-14	0.01	0.0017	0.05	No	17	0.004118	0.002217	64.71	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-15	0.01	0.0018	0.05	No	17	0.005106	0.00148	94.12	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-17	0.008819	0.006411	0.05	No	17	0.007771	0.002266	11.76	None	ln(x)	0.01	Param.
Selenium (mg/L)	DGWC-19	0.008624	0.005564	0.05	No	17	0.007094	0.002441	11.76	None	No	0.01	Param.
Selenium (mg/L)	DGWC-2	0.0051	0.0037	0.05	No	17	0.004871	0.001733	41.18	None	No	0.01	NP (normality)
Selenium (mg/L)	DGWC-20	0.06544	0.03599	0.05	No	17	0.05072	0.0235	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-22	0.005	0.0017	0.05	No	17	0.004806	0.0008004	94.12	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-4	0.005	0.0014	0.05	No	16	0.004775	0.0009	93.75	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-47	0.01198	0.004695	0.05	No	17	0.008335	0.00581	11.76	None	No	0.01	Param.
Selenium (mg/L)	DGWC-48	0.006509	0.002678	0.05	No	17	0.005541	0.003219	17.65	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	DGWC-5	0.03982	0.009533	0.05	No	16	0.03004	0.03995	6.25	None	x^(1/3)	0.01	Param.
Selenium (mg/L)	DGWC-8	0.0069	0.0028	0.05	No	16	0.004637	0.002001	56.25	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-9	0.121	0.04897	0.05	No	17	0.08498	0.05747	0	None	No	0.01	Param.
Thallium (mg/L)	B-56	0.0003125	0.0001709	0.002	No	6	0.0002417	0.00005154	0	None	No	0.01	Param.
Thallium (mg/L)	B-82	0.005	0.000099	0.002	No	7	0.003601	0.002389	71.43	None	No	0.008	NP (NDs)
Thallium (mg/L)	B-83	0.005	0.000072	0.002	No	7	0.004296	0.001863	85.71	None	No	0.008	NP (NDs)
Thallium (mg/L)	B-88	0.005	0.0002	0.002	No	6	0.0042	0.00196	83.33	None	No	0.0155	NP (NDs)
Thallium (mg/L)	DGWC-10	0.001	0.00034	0.002	No	16	0.001012	0.001565	18.75	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-12	0.005	0.00009	0.002	No	18	0.003093	0.00246	61.11	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-17	0.005	0.00017	0.002	No	17	0.001881	0.002375	35.29	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-19	0.00057	0.00049	0.002	No	17	0.0005465	0.0001297	5.882	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-20	0.005	0.00055	0.002	No	17	0.00189	0.001838	29.41	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-22	0.005	0.00007	0.002	No	17	0.003549	0.002317	70.59	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-4	0.005	0.000073	0.002	No	16	0.004692	0.001232	93.75	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-42	0.005	0.00009	0.002	No	17	0.003843	0.002149	76.47	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-47	0.00032	0.0002	0.002	No	17	0.0005741	0.001156	11.76	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-48	0.005	0.00008	0.002	No	17	0.003553	0.00231	70.59	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-5	0.005	0.0002	0.002	No	16	0.004084	0.00197	81.25	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-8	0.001	0.00019	0.002	No	16	0.001164	0.001913	25	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-9	0.005	0.00044	0.002	No	17	0.002385	0.002258	41.18	None	No	0.01	NP (normality)

# Appendix IV Trend Tests - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/22/2022, 10:13 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Beryllium (mg/L)	DGWA-70A (bg)	-0.0005528	-75	-63	Yes	17	47.06	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-48	-0.0003618	-75	-63	Yes	17	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWA-53 (bg)	-0.004341	-86	-63	Yes	17	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-10	-0.02391	-81	-58	Yes	16	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-47	-0.04254	-94	-63	Yes	17	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-48	-0.04236	-118	-63	Yes	17	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-8	-0.01359	-84	-58	Yes	16	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-9	0.02203	94	63	Yes	17	0	n/a	n/a	0.01	NP
Combined Radium 226 + 228 (pCi/L)	DGWA-53 (bg)	-0.5606	-74	-63	Yes	17	0	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWC-47	-0.005519	-84	-63	Yes	17	0	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWC-48	-0.006296	-90	-63	Yes	17	0	n/a	n/a	0.01	NP

# Appendix IV Trend Tests - All Results

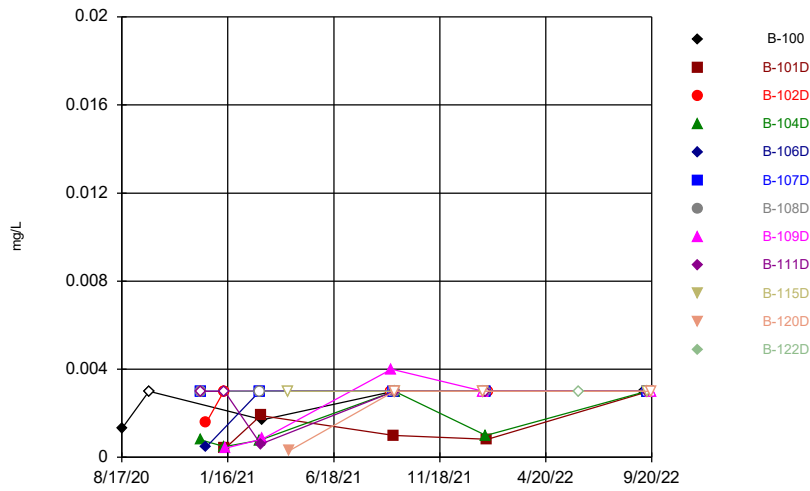
Plant McDonough    Client: Southern Company    Data: McDonough AP    Printed 11/22/2022, 10:13 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Arsenic (mg/L)	DGWA-53 (bg)	0	2	63	No	17	58.82	n/a	n/a	0.01	NP
Arsenic (mg/L)	DGWA-70A (bg)	0	-31	-63	No	17	82.35	n/a	n/a	0.01	NP
Arsenic (mg/L)	DGWA-71 (bg)	0	24	58	No	16	81.25	n/a	n/a	0.01	NP
Arsenic (mg/L)	DGWC-9	-0.0002264	-4	-63	No	17	5.882	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWA-53 (bg)	0	0	63	No	17	100	n/a	n/a	0.01	NP
<b>Beryllium (mg/L)</b>	<b>DGWA-70A (bg)</b>	<b>-0.0005528</b>	<b>-75</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>47.06</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Beryllium (mg/L)	DGWA-71 (bg)	-0.00001726	-46	-63	No	17	29.41	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-10	0.0005202	26	58	No	16	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-47	-0.0008716	-63	-63	No	17	0	n/a	n/a	0.01	NP
<b>Beryllium (mg/L)</b>	<b>DGWC-48</b>	<b>-0.0003618</b>	<b>-75</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Beryllium (mg/L)	DGWC-5	0.0004942	44	58	No	16	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-9	0.00003719	9	63	No	17	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	B-92	-0.00171	-3	-12	No	5	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	B-93	0.001505	13	18	No	7	0	n/a	n/a	0.01	NP
<b>Cobalt (mg/L)</b>	<b>DGWA-53 (bg)</b>	<b>-0.004341</b>	<b>-86</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Cobalt (mg/L)	DGWA-70A (bg)	0	11	63	No	17	52.94	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWA-71 (bg)	0	23	58	No	16	68.75	n/a	n/a	0.01	NP
<b>Cobalt (mg/L)</b>	<b>DGWC-10</b>	<b>-0.02391</b>	<b>-81</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Cobalt (mg/L)	DGWC-19	-0.0001283	-13	-63	No	17	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-20	0.05164	45	63	No	17	0	n/a	n/a	0.01	NP
<b>Cobalt (mg/L)</b>	<b>DGWC-47</b>	<b>-0.04254</b>	<b>-94</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Cobalt (mg/L)</b>	<b>DGWC-48</b>	<b>-0.04236</b>	<b>-118</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Cobalt (mg/L)</b>	<b>DGWC-8</b>	<b>-0.01359</b>	<b>-84</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Cobalt (mg/L)</b>	<b>DGWC-9</b>	<b>0.02203</b>	<b>94</b>	<b>63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Cobalt (mg/L)	B-104D	-0.02997	-5	-14	No	6	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	B-56	0.004575	10	14	No	6	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	B-63	-0.001791	-4	-18	No	7	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	B-93	-0.002781	-12	-18	No	7	0	n/a	n/a	0.01	NP
<b>Combined Radium 226 + 228 (pCi/L)</b>	<b>DGWA-53 (bg)</b>	<b>-0.5606</b>	<b>-74</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Combined Radium 226 + 228 (pCi/L)	DGWA-70A (bg)	0.02757	9	68	No	18	0	n/a	n/a	0.01	NP
Combined Radium 226 + 228 (pCi/L)	DGWA-71 (bg)	0.0095	5	63	No	17	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
Lithium (mg/L)	DGWA-53 (bg)	-0.0001177	-22	-63	No	17	5.882	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWA-70A (bg)	0	21	63	No	17	82.35	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWA-71 (bg)	-0.0001133	-55	-58	No	16	18.75	n/a	n/a	0.01	NP
<b>Lithium (mg/L)</b>	<b>DGWC-47</b>	<b>-0.005519</b>	<b>-84</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Lithium (mg/L)</b>	<b>DGWC-48</b>	<b>-0.006296</b>	<b>-90</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>



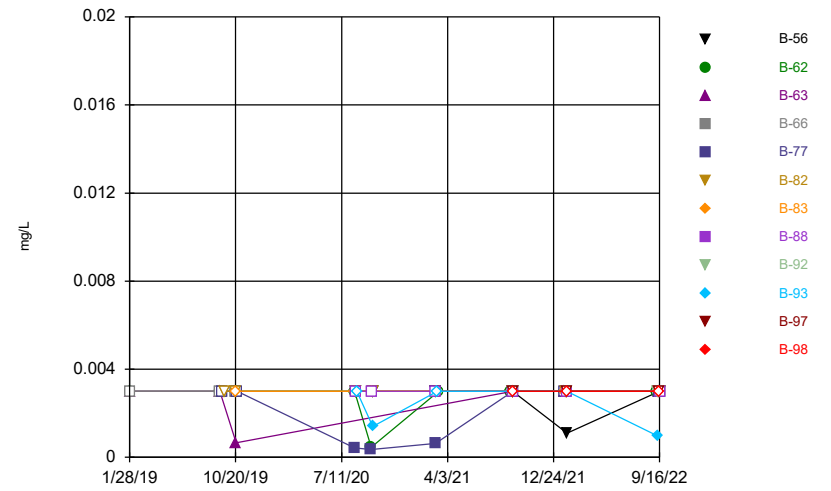
FIGURE A.

### Time Series



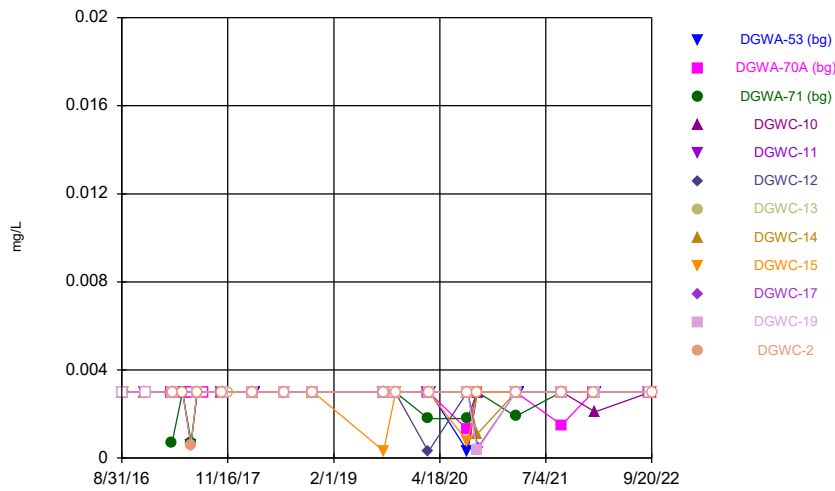
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### Time Series



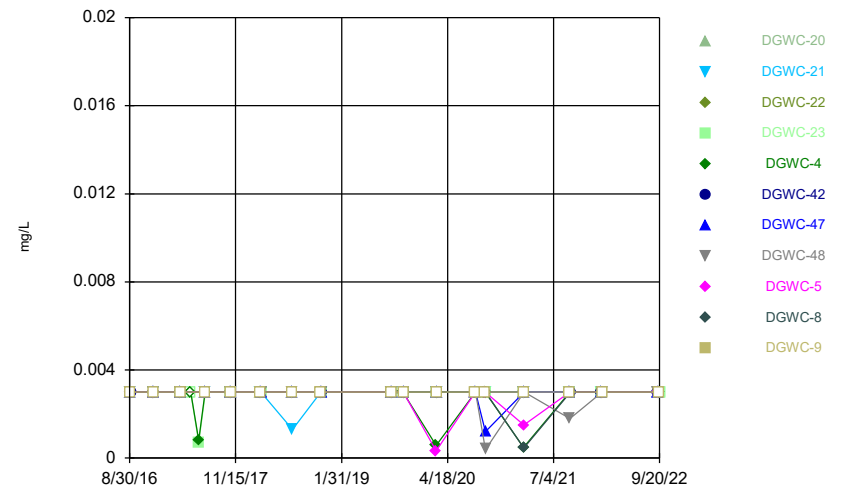
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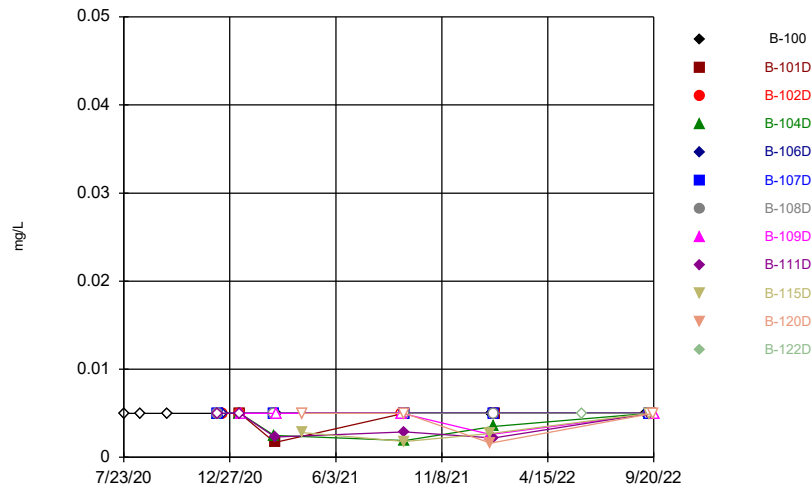
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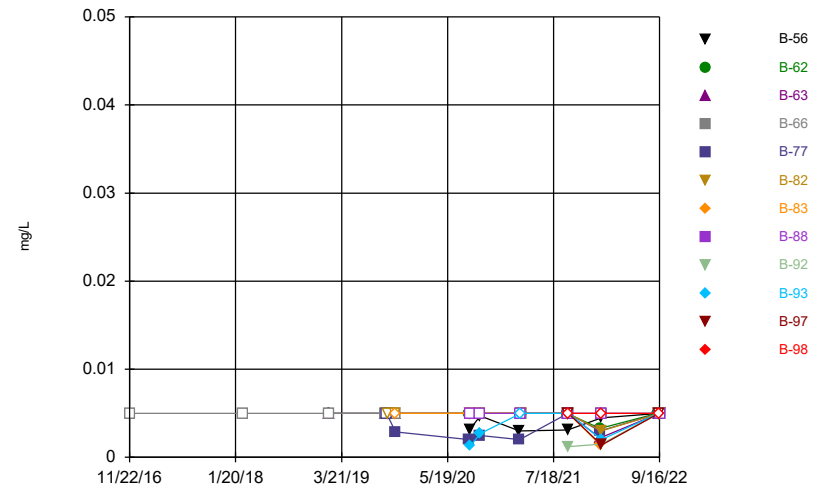
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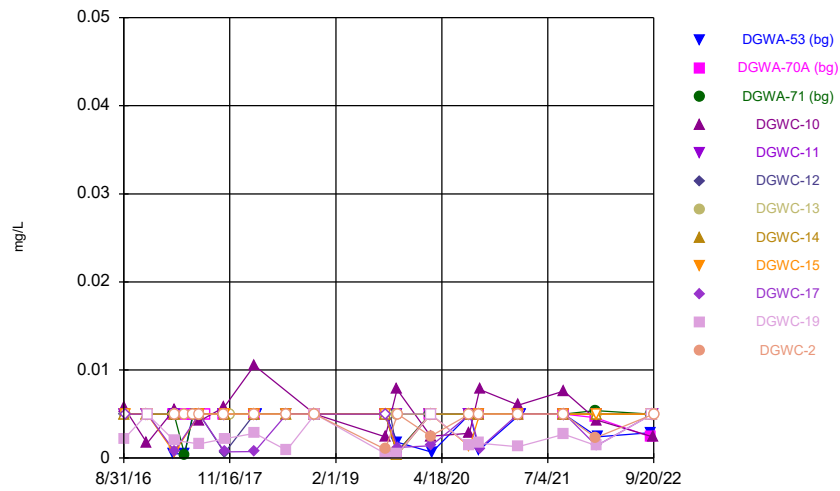
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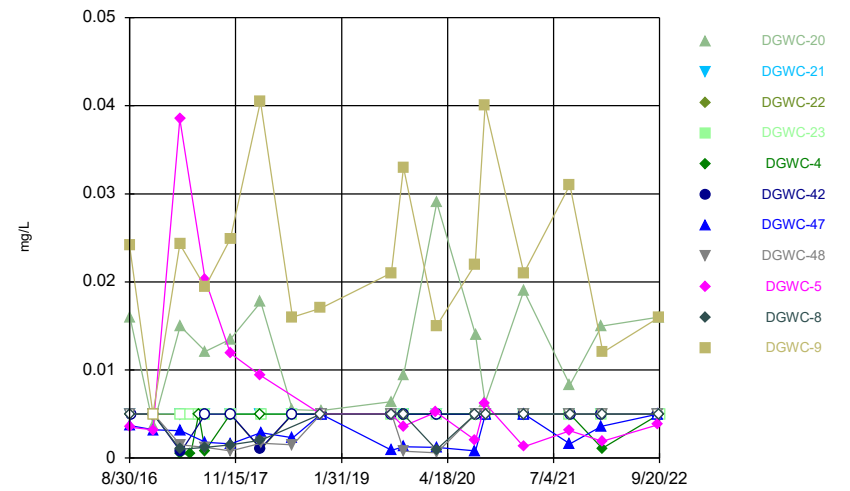
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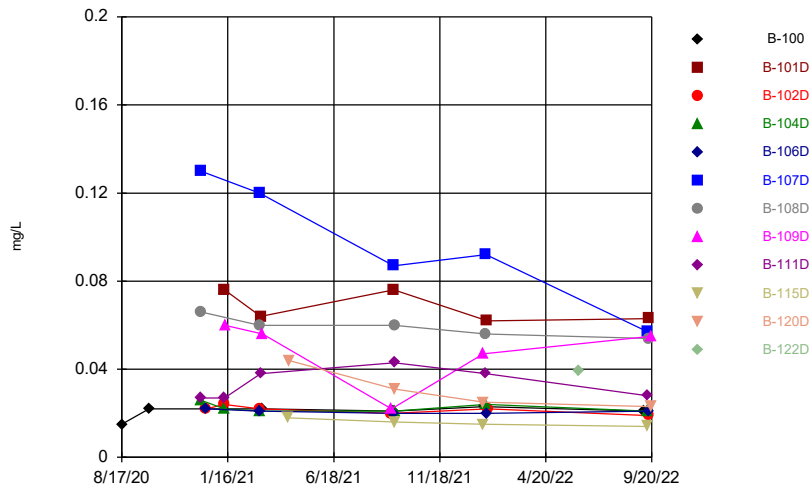
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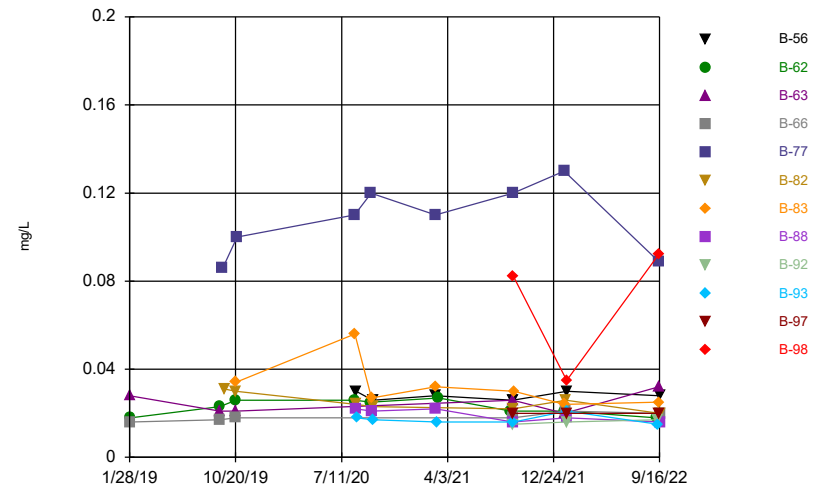
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### Time Series



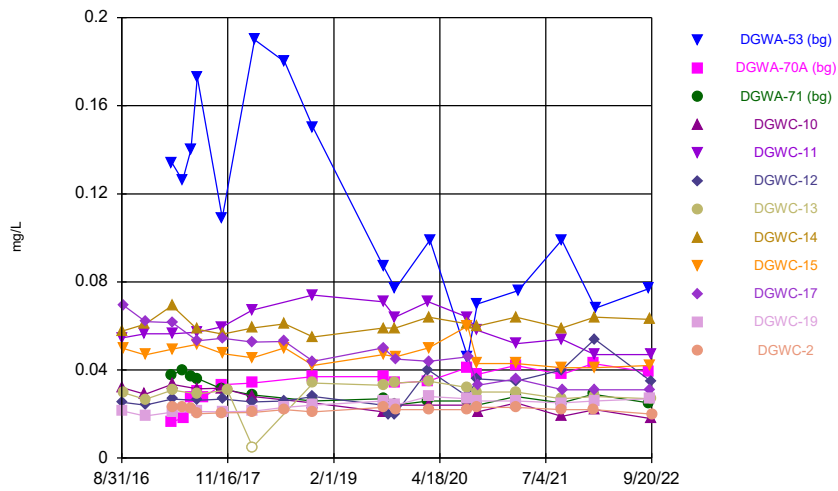
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### Time Series



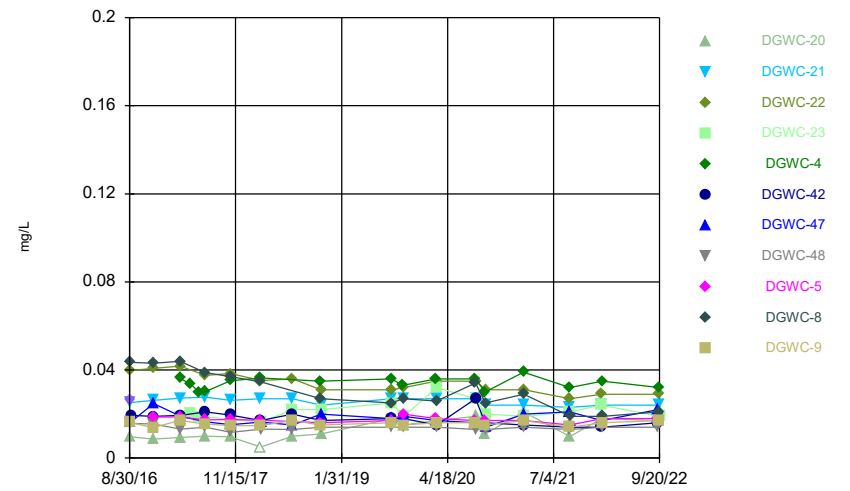
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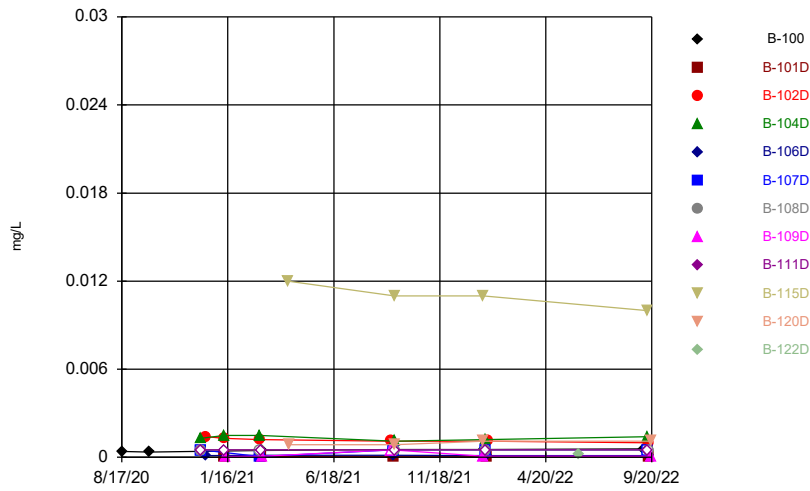
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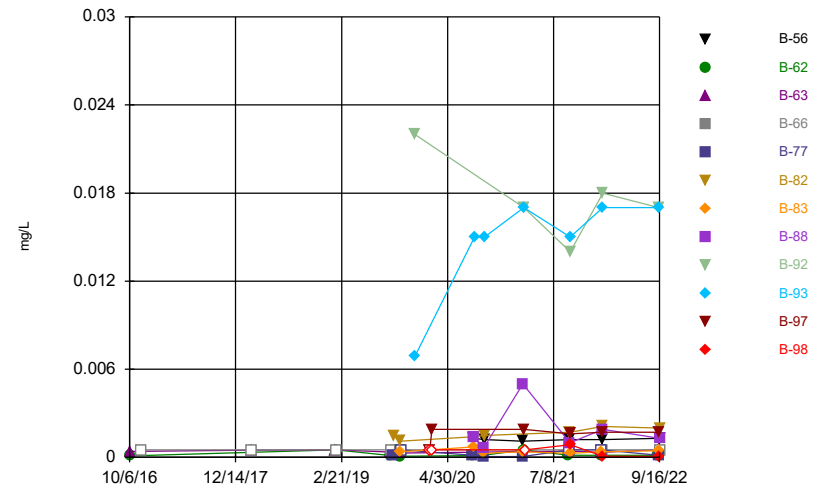
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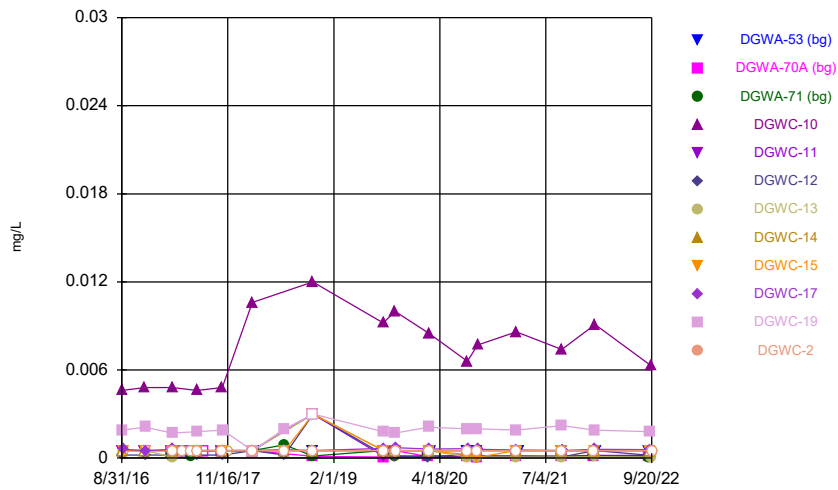
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### Time Series



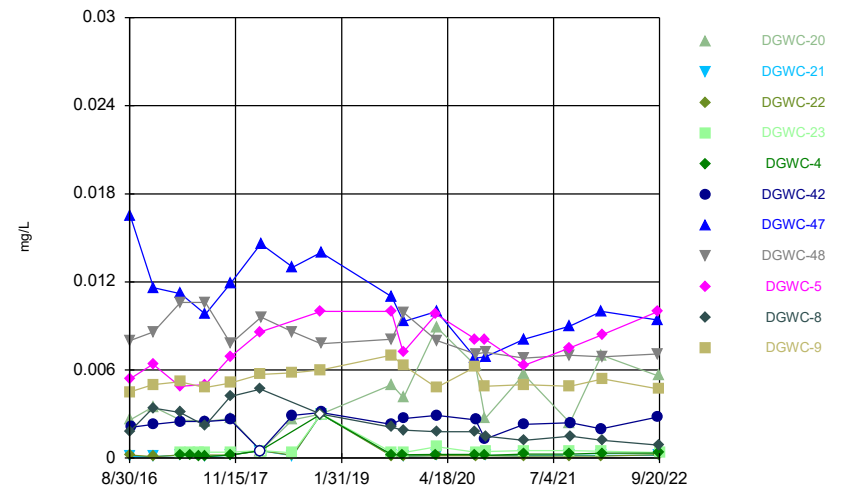
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### Time Series



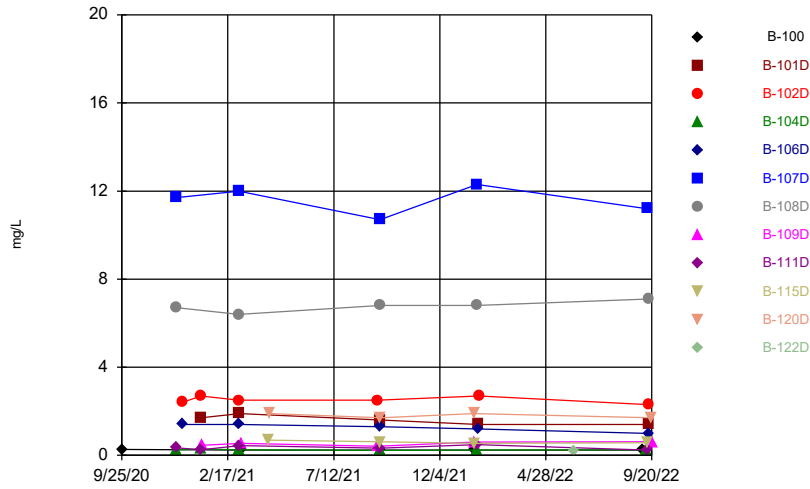
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### Time Series



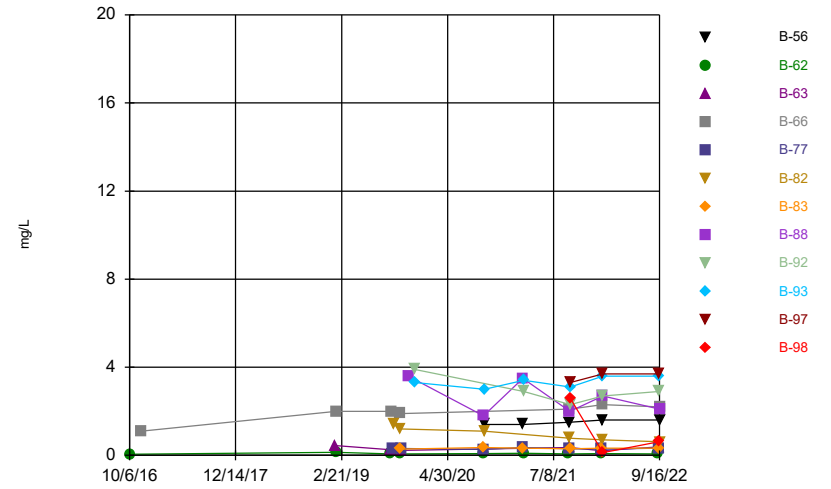
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### Time Series



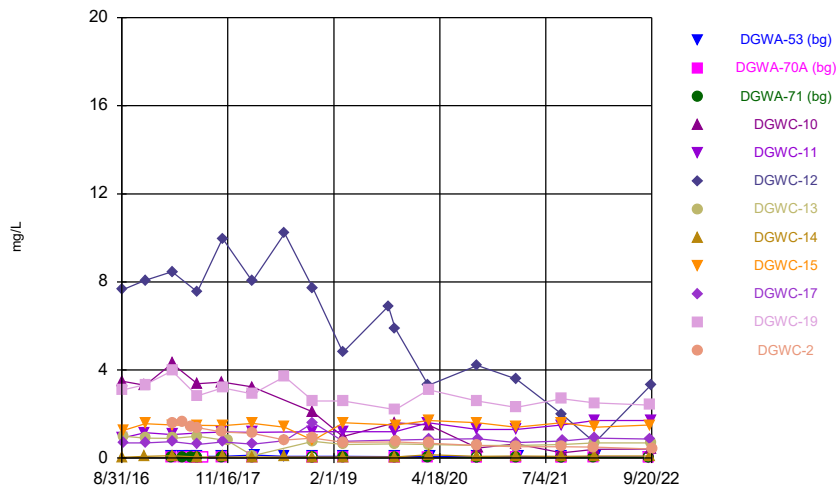
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### Time Series



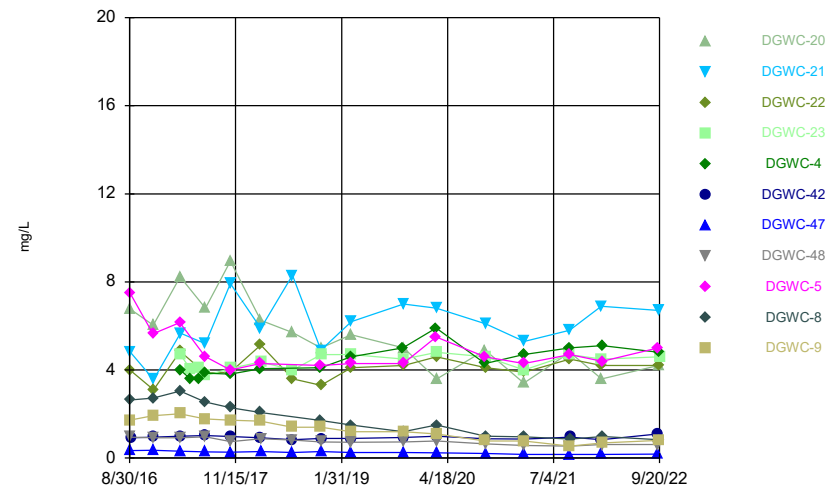
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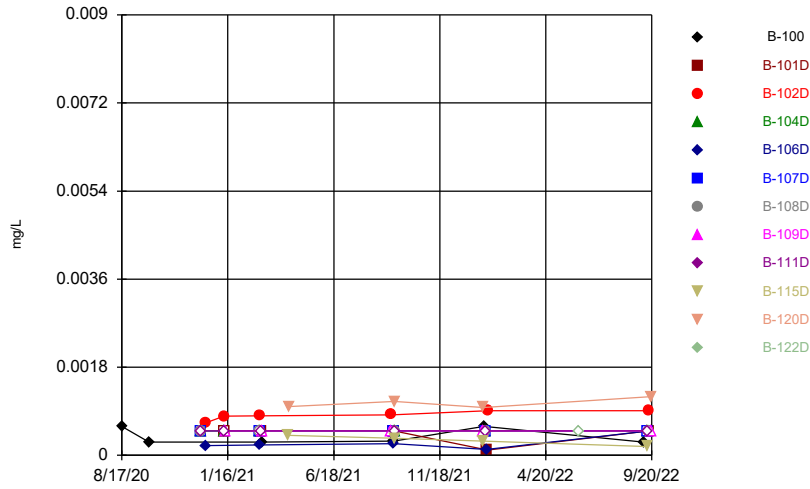
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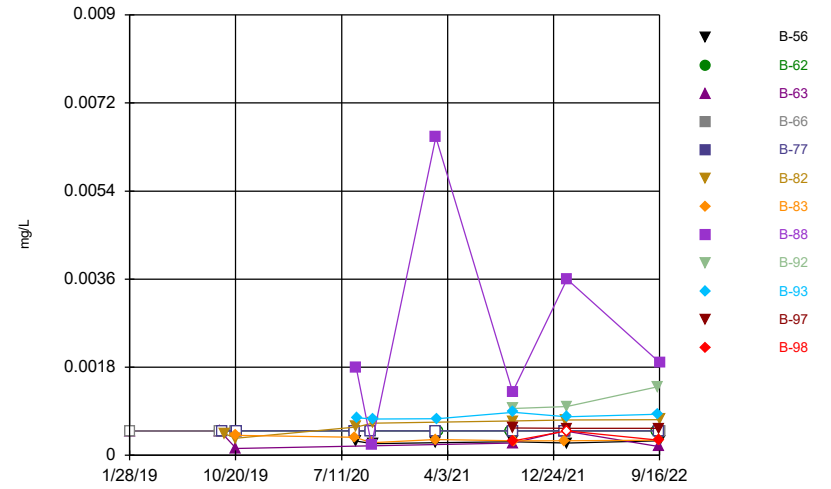
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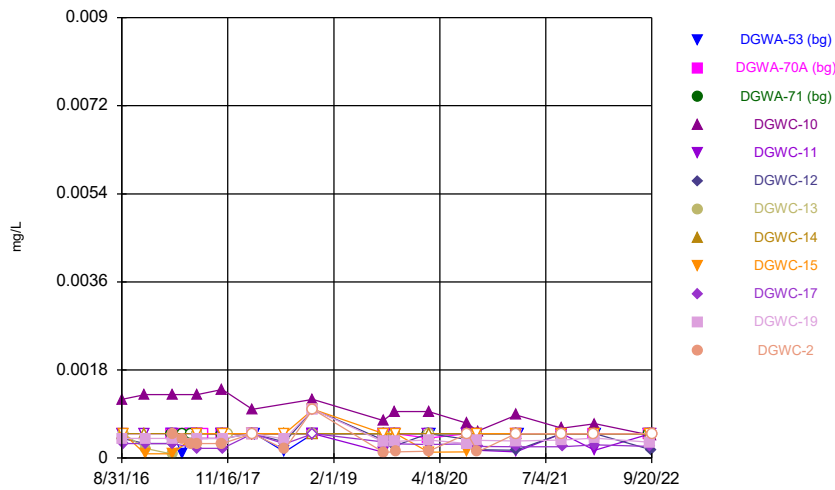
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### Time Series



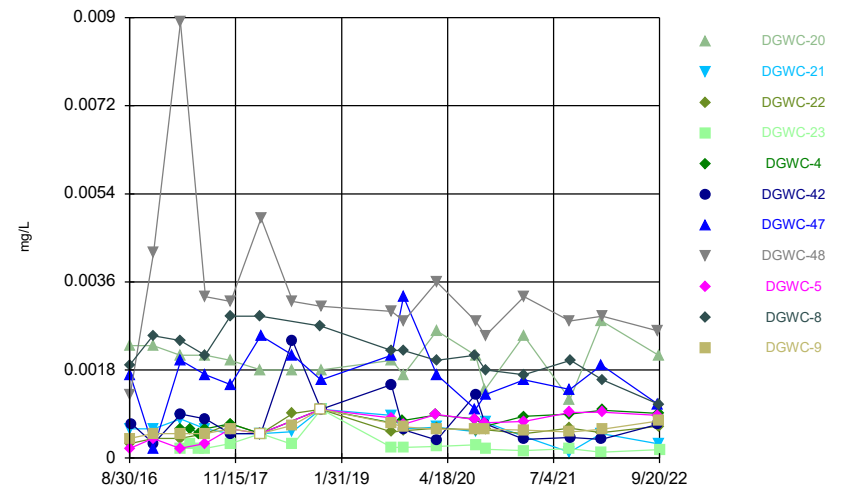
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### Time Series



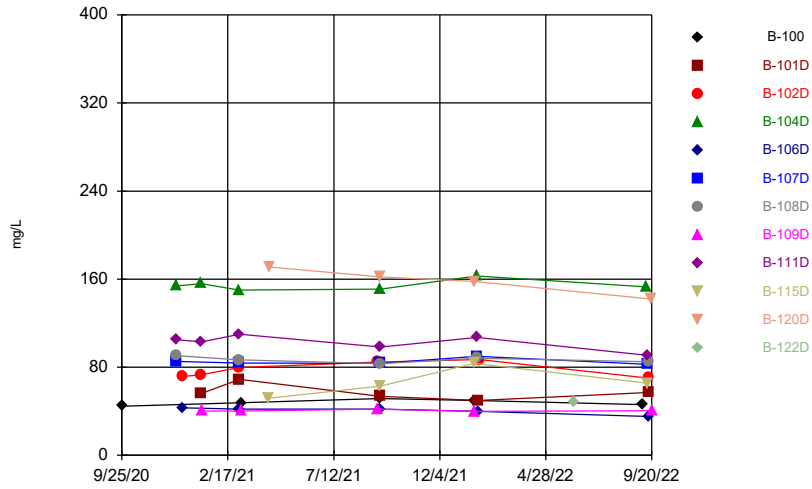
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Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



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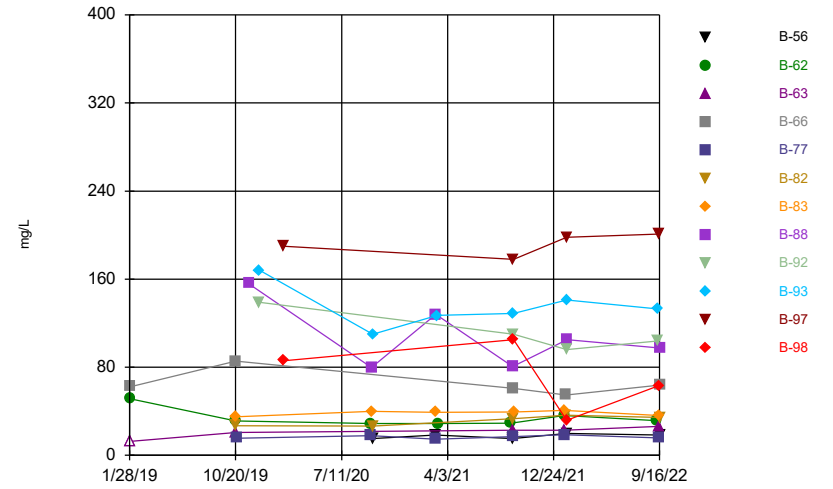
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Constituent: Calcium Analysis Run 11/17/2022 3:07 PM View: Constituents View  
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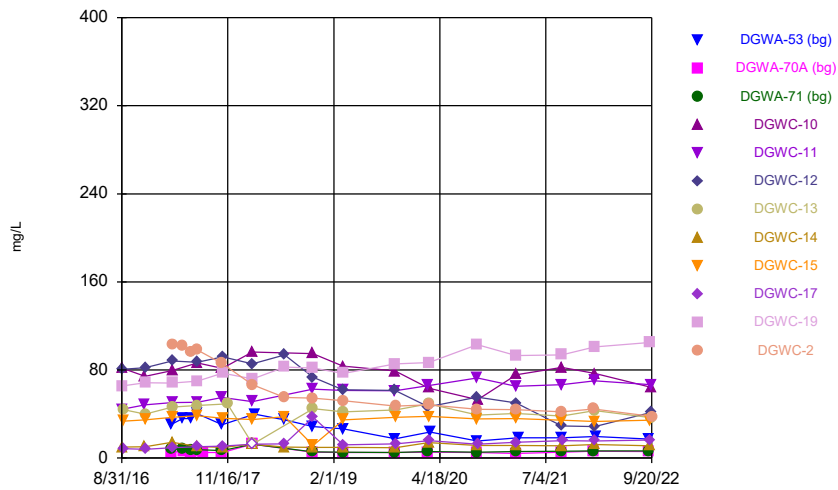
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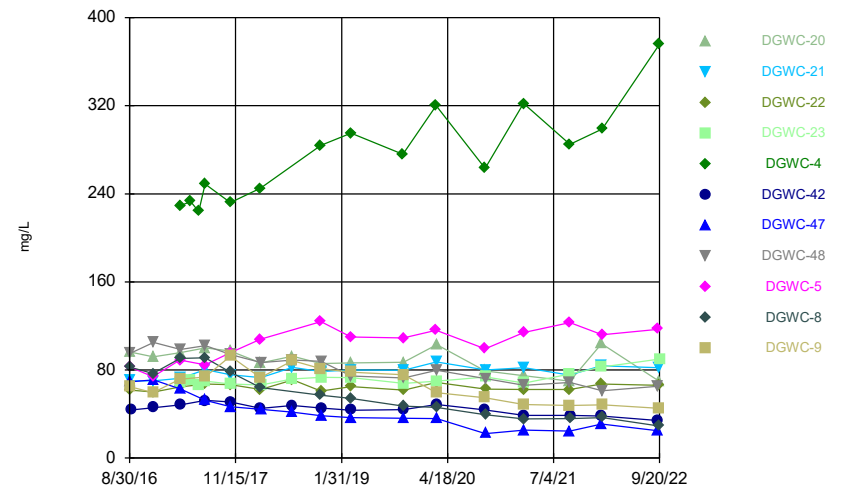
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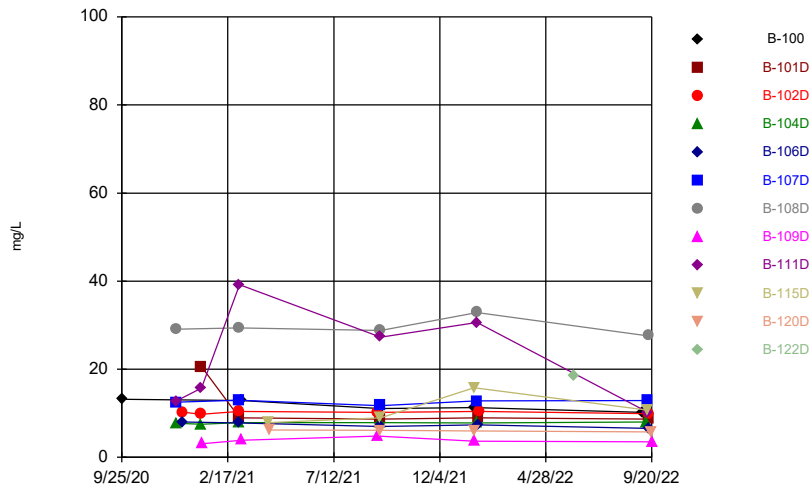
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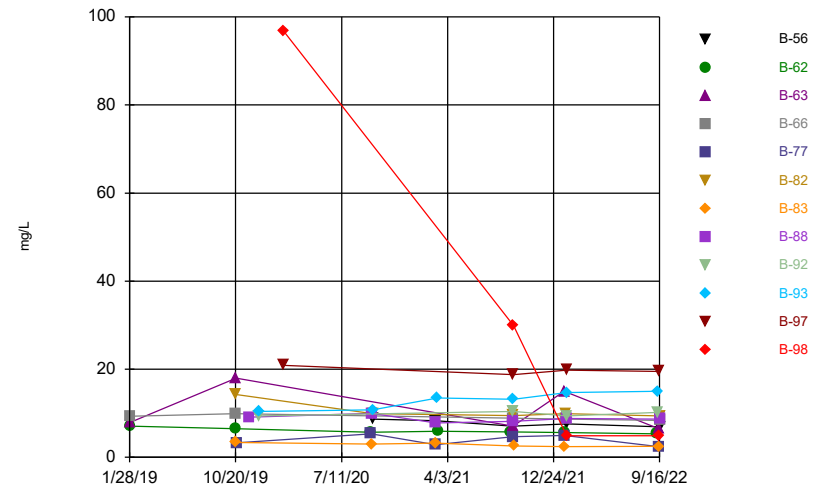


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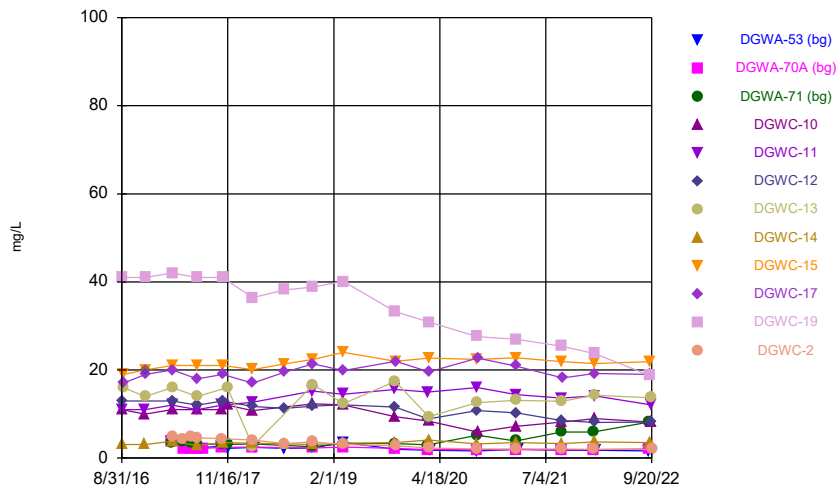
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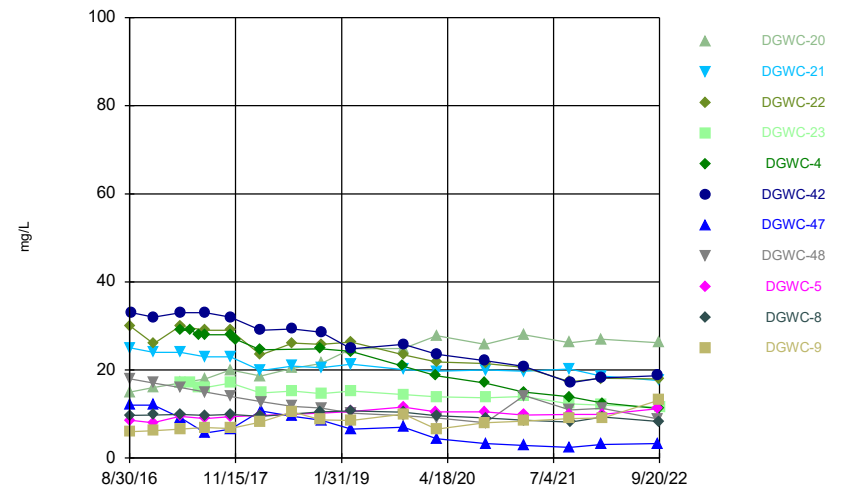
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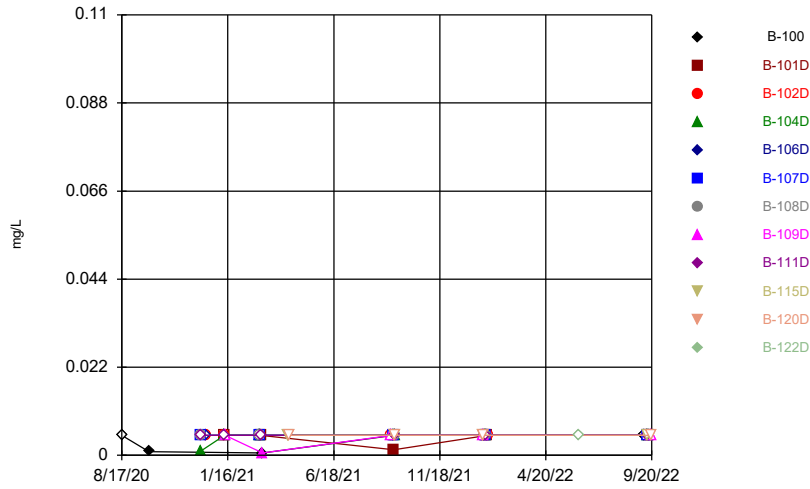
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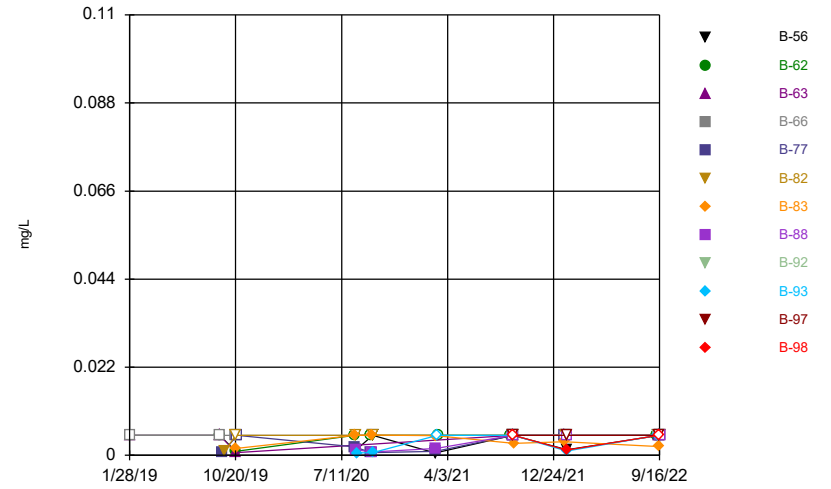
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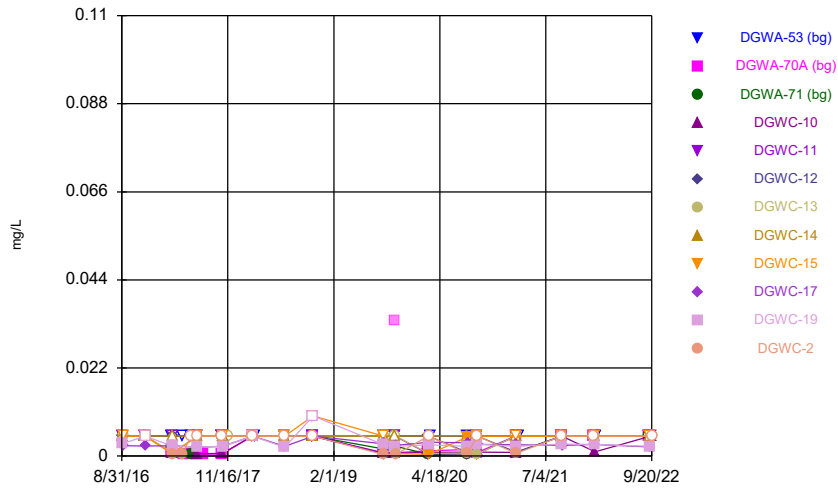
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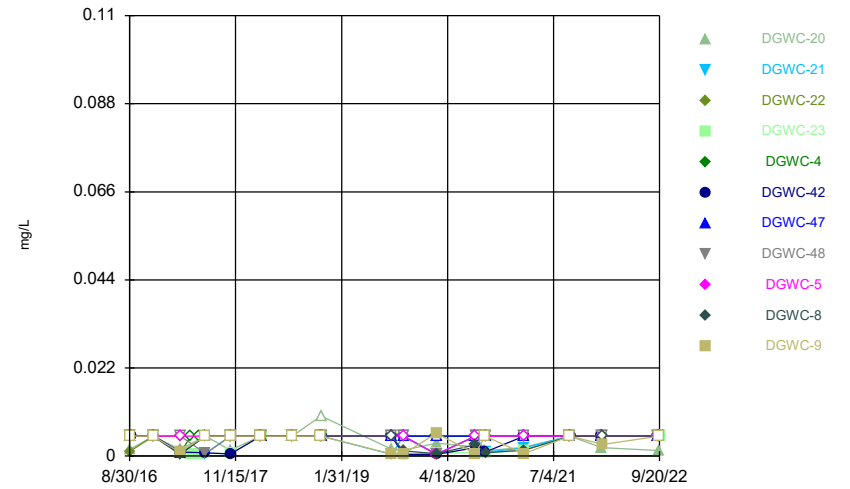
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### Time Series



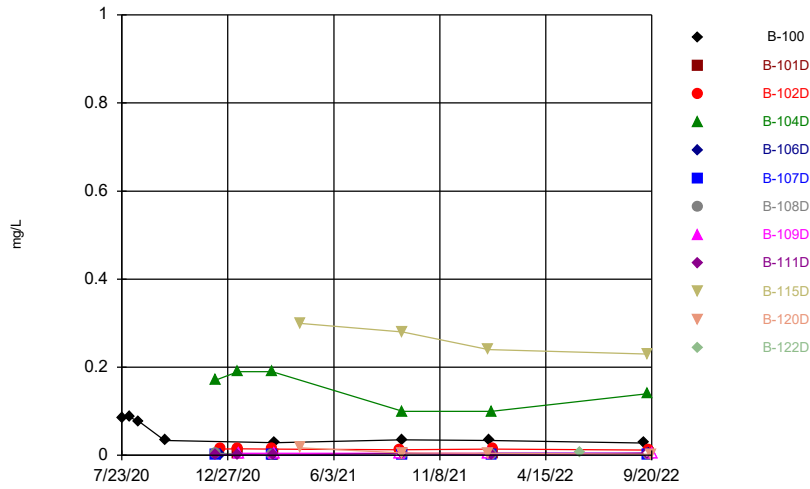
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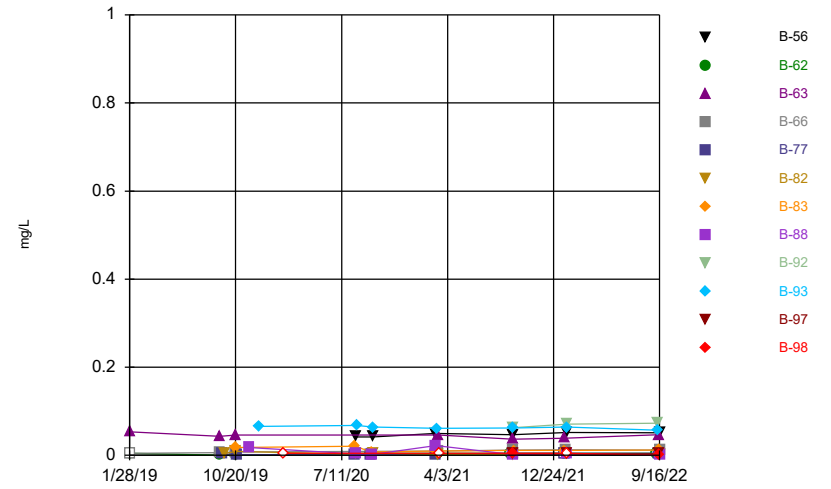
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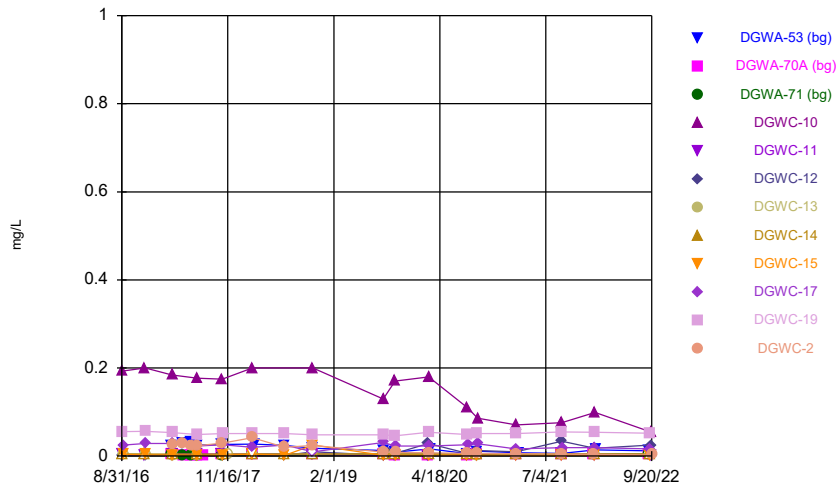
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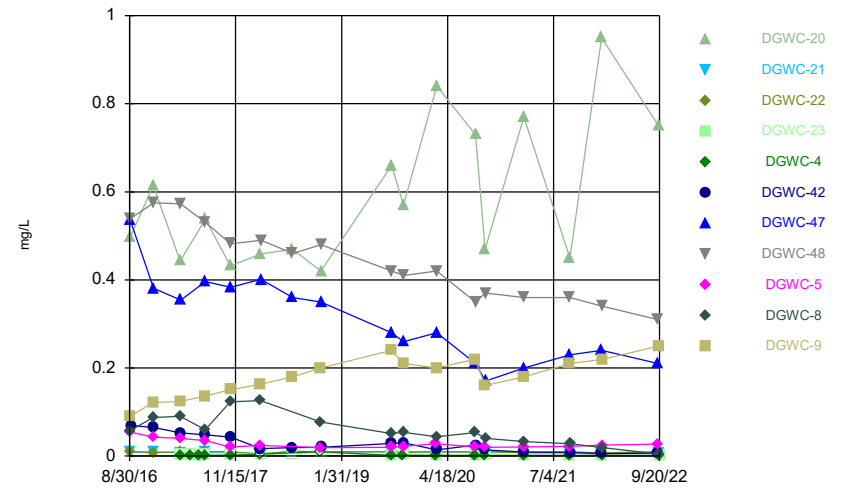
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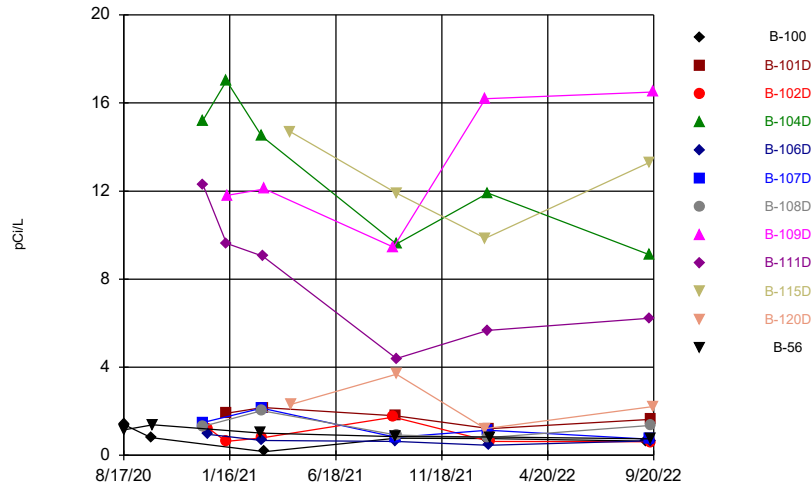
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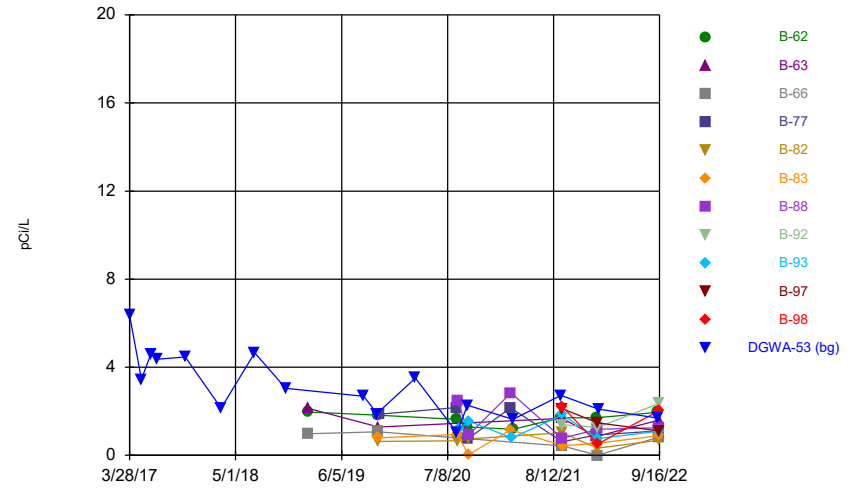
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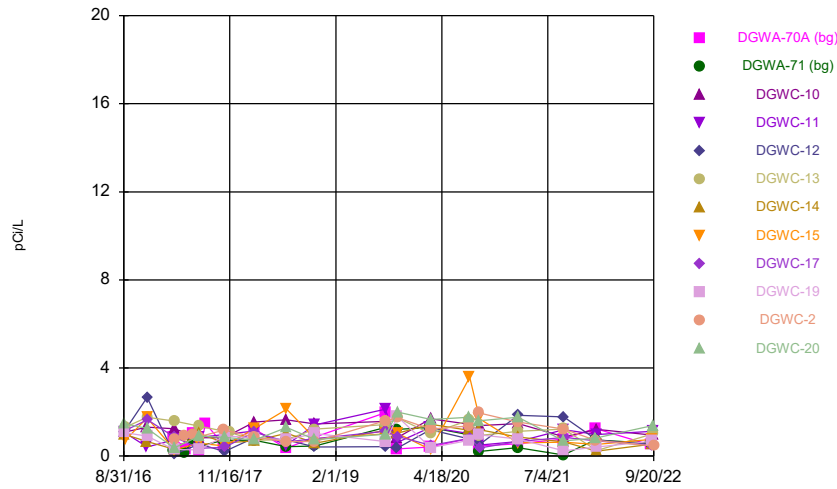
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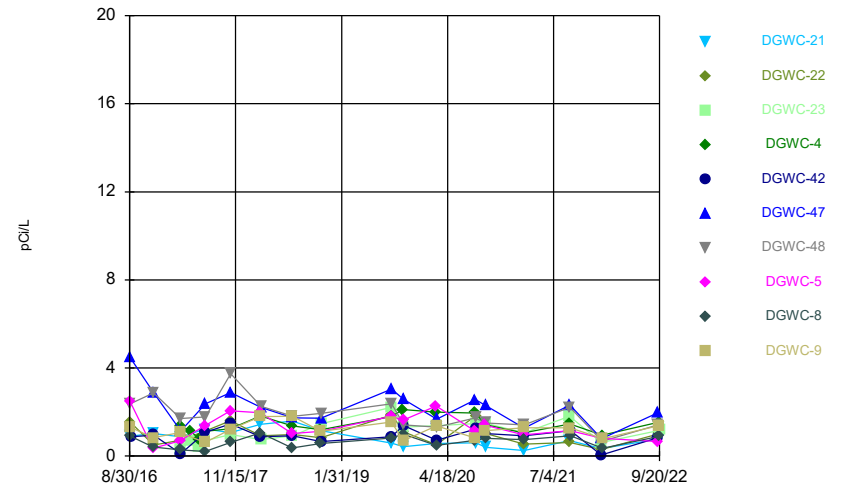
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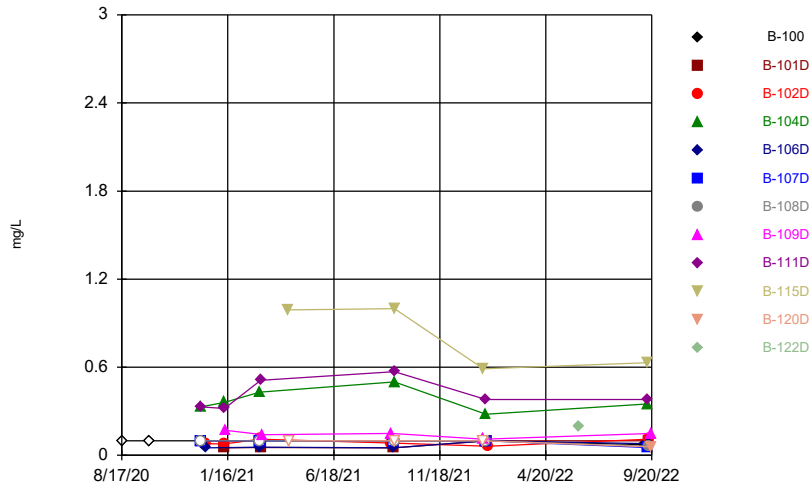
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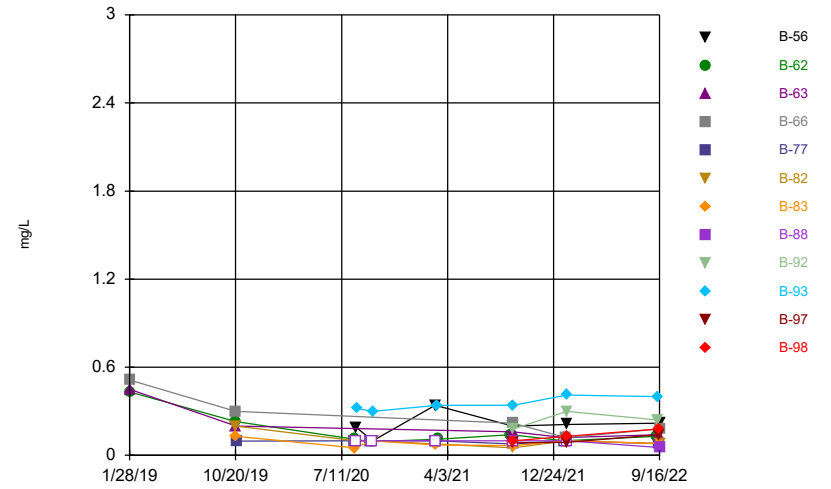
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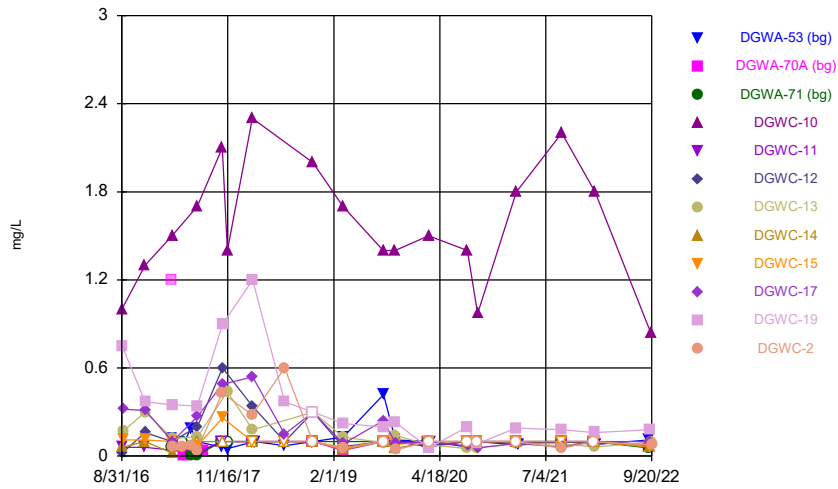
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Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



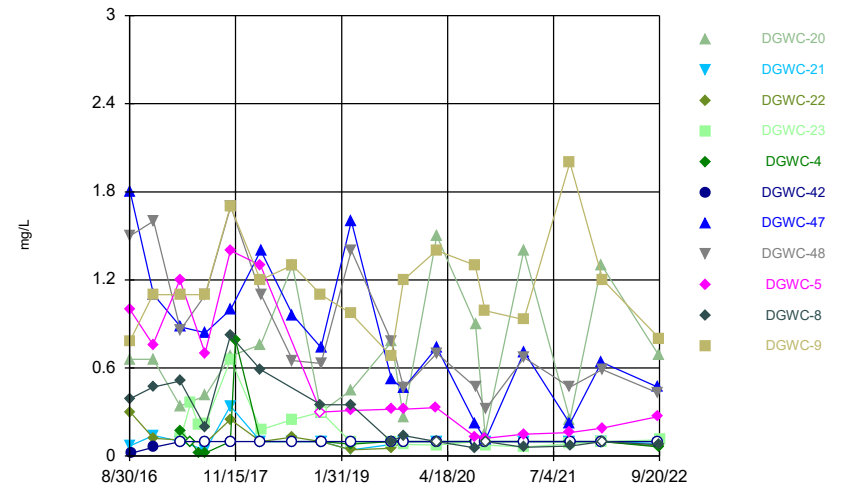
Constituent: Fluoride Analysis Run 11/17/2022 3:07 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



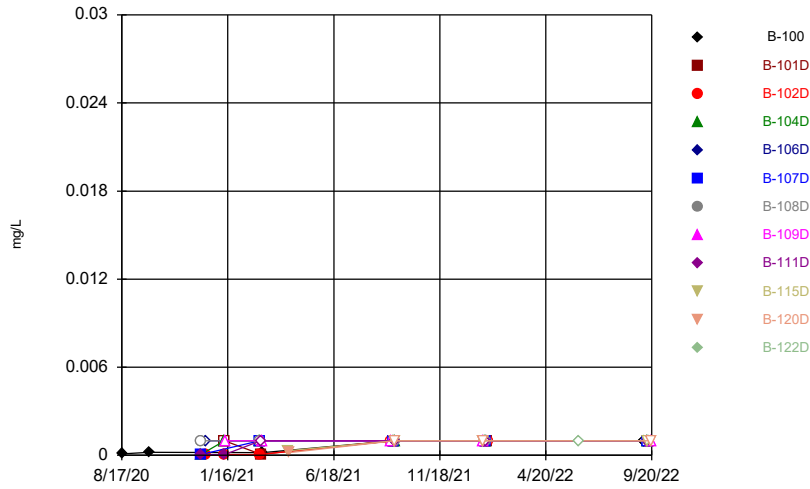
Constituent: Fluoride Analysis Run 11/17/2022 3:07 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



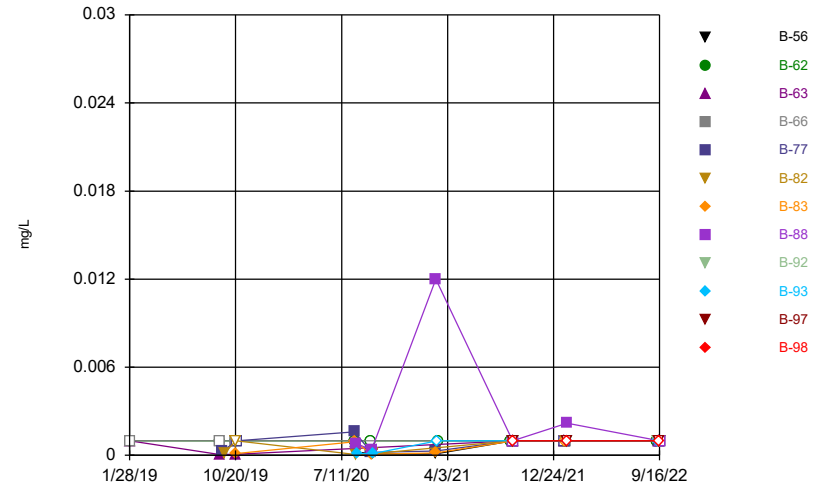
Constituent: Fluoride Analysis Run 11/17/2022 3:07 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



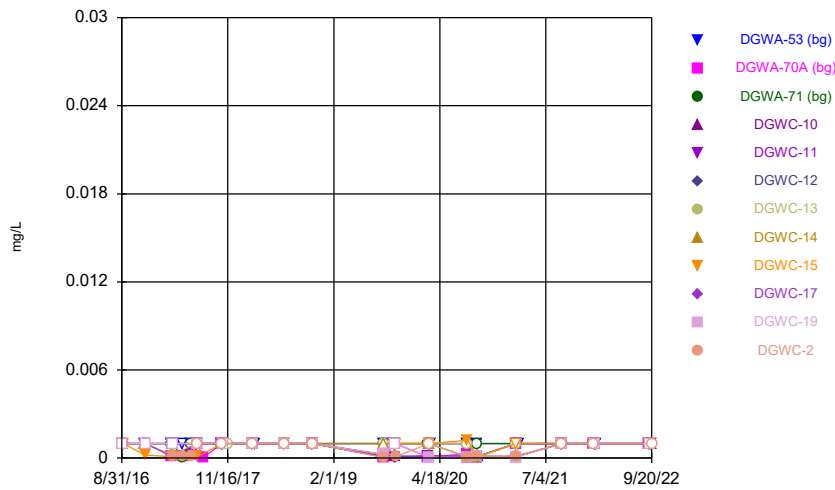
Constituent: Lead Analysis Run 11/17/2022 3:07 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



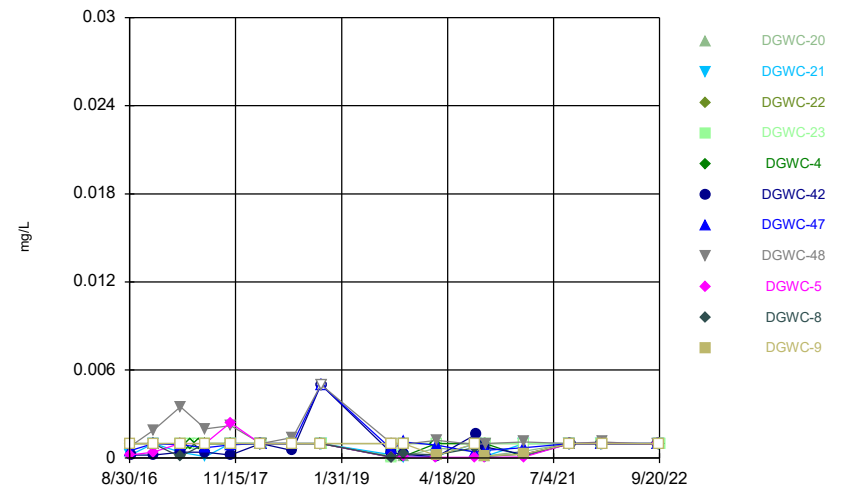
Constituent: Lead Analysis Run 11/17/2022 3:07 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



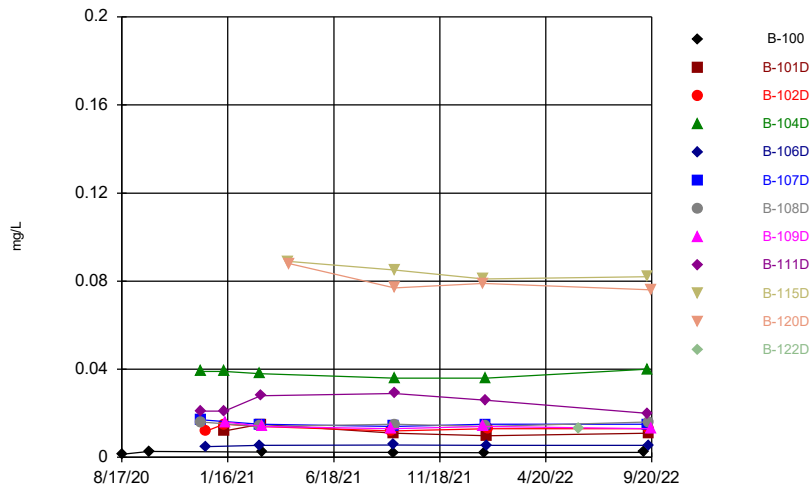
Constituent: Lead Analysis Run 11/17/2022 3:07 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



Constituent: Lead Analysis Run 11/17/2022 3:07 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

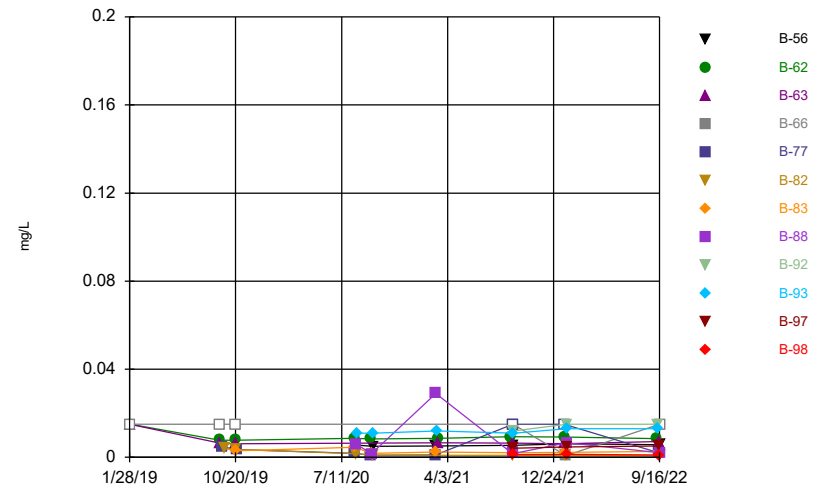
### Time Series



Constituent: Lithium Analysis Run 11/17/2022 3:07 PM View: Constituents View  
 Plant McDonough Client: Southern Company Data: McDonough AP

Hollow symbols indicate censored values.

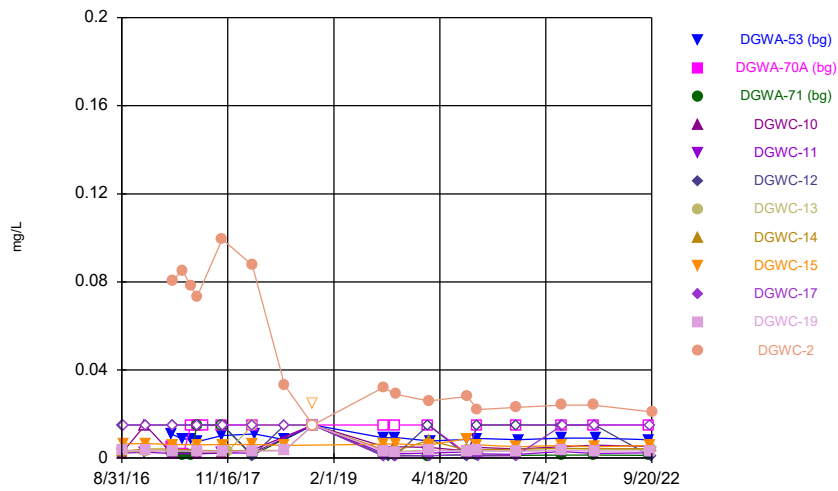
### Time Series



Constituent: Lithium Analysis Run 11/17/2022 3:07 PM View: Constituents View  
 Plant McDonough Client: Southern Company Data: McDonough AP

Hollow symbols indicate censored values.

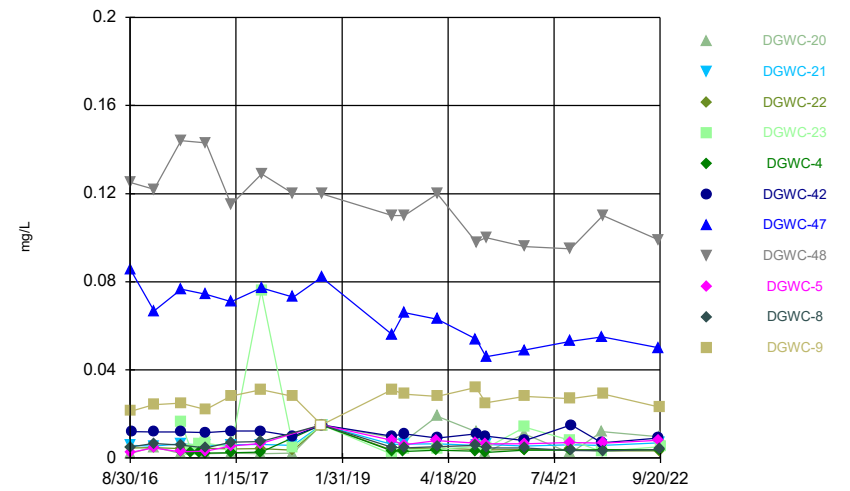
### Time Series



Constituent: Lithium Analysis Run 11/17/2022 3:07 PM View: Constituents View  
 Plant McDonough Client: Southern Company Data: McDonough AP

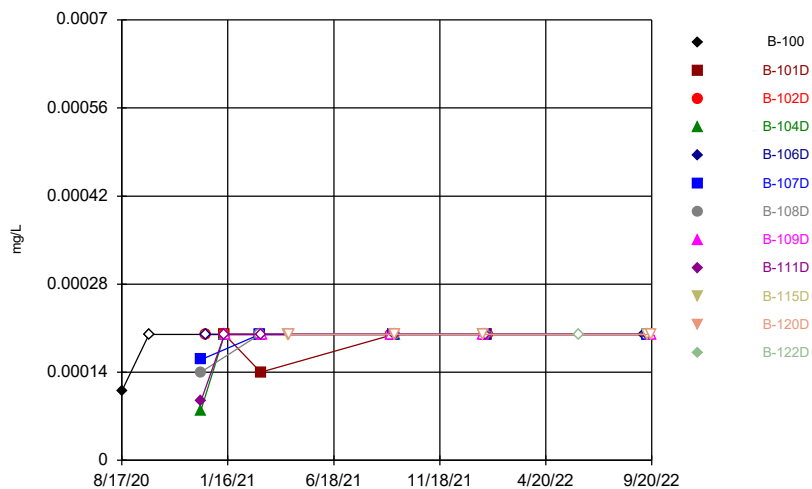
Hollow symbols indicate censored values.

### Time Series



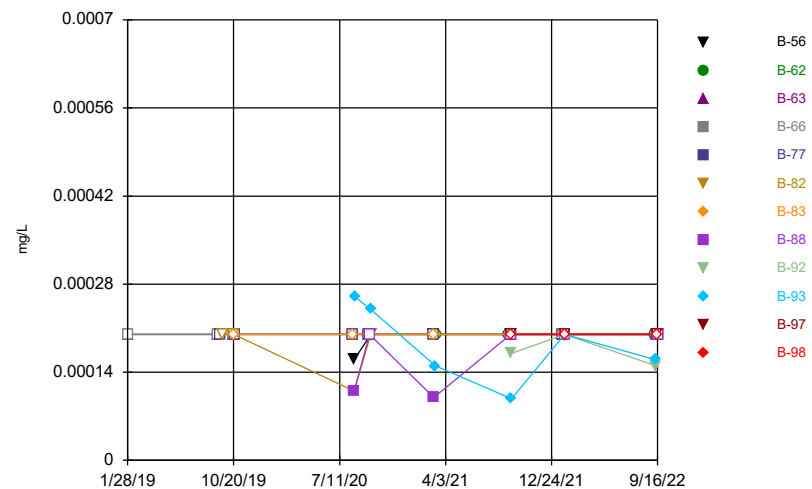
Constituent: Lithium Analysis Run 11/17/2022 3:07 PM View: Constituents View  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



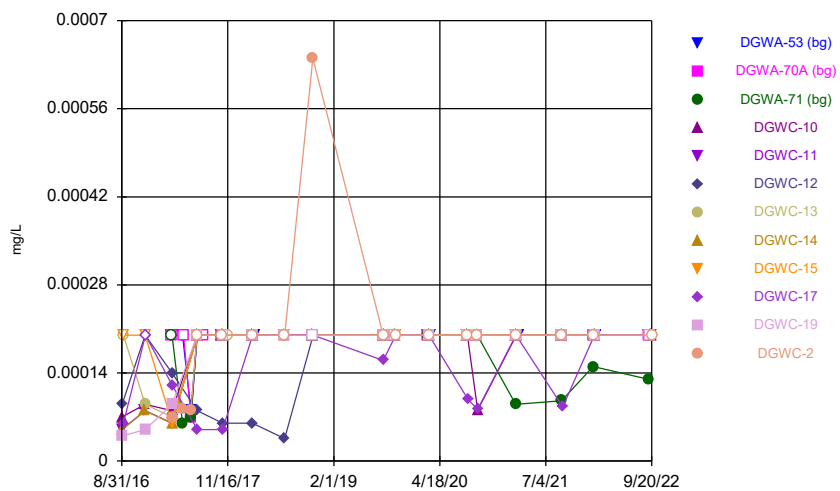
Constituent: Mercury Analysis Run 11/17/2022 3:08 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



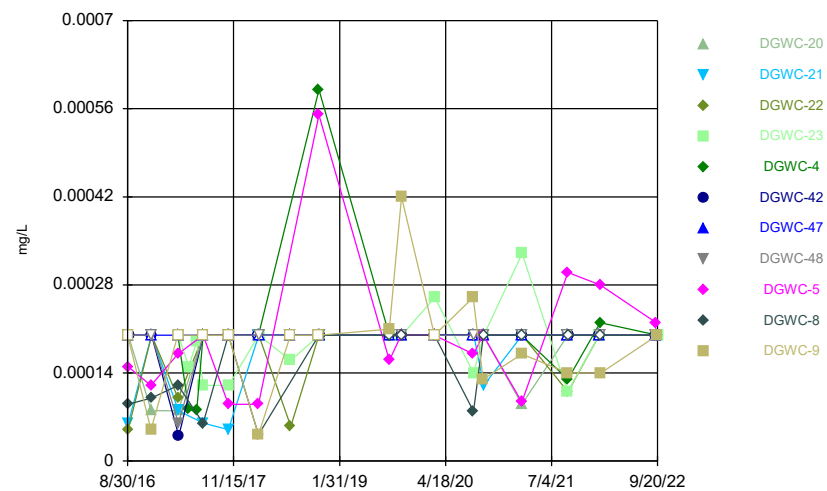
Constituent: Mercury Analysis Run 11/17/2022 3:08 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



Constituent: Mercury Analysis Run 11/17/2022 3:08 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

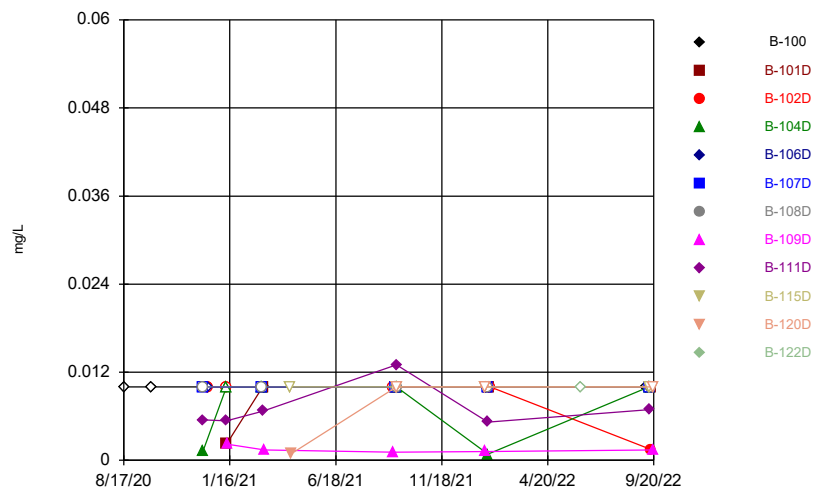
### Time Series



Constituent: Mercury Analysis Run 11/17/2022 3:08 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

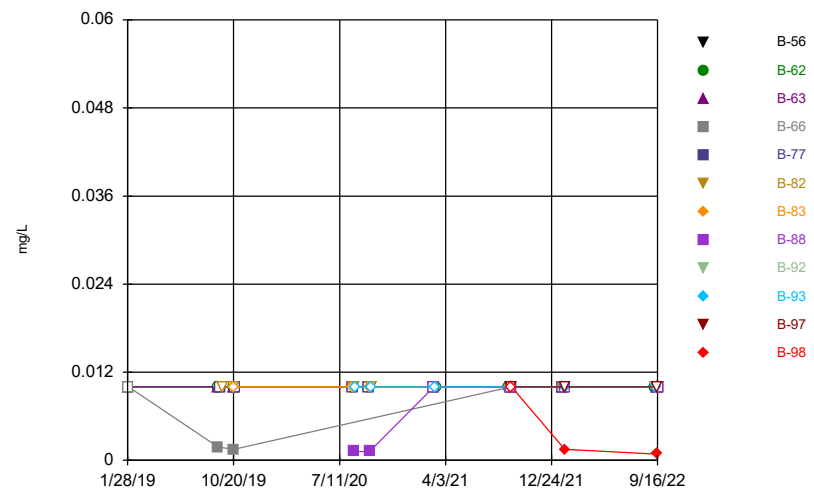


### Time Series



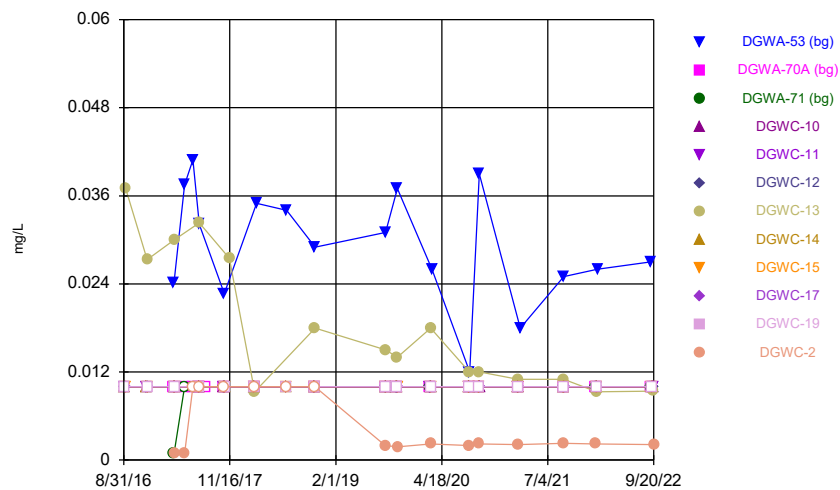
Constituent: Molybdenum Analysis Run 11/17/2022 3:08 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



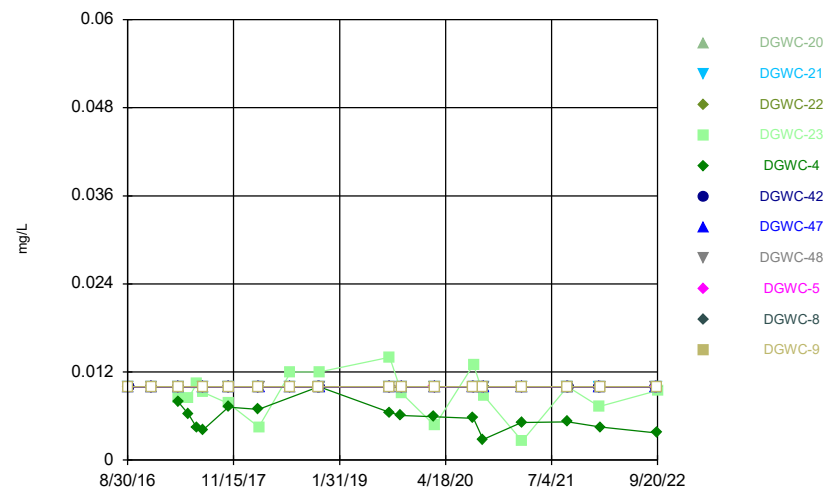
Constituent: Molybdenum Analysis Run 11/17/2022 3:08 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



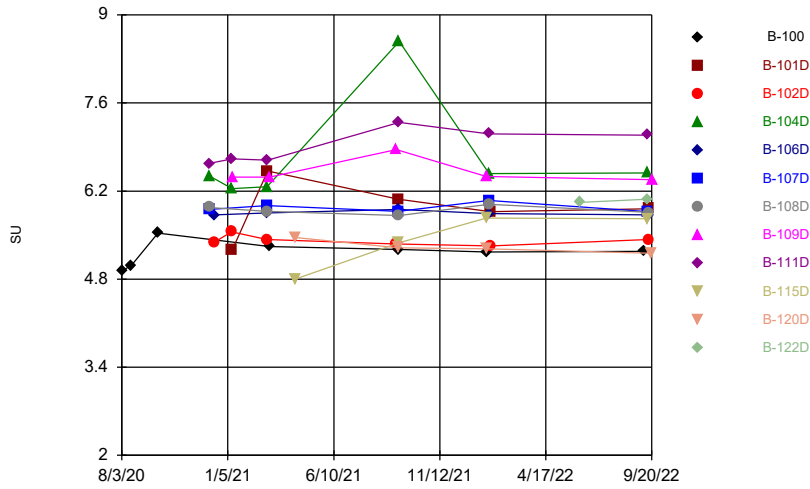
Constituent: Molybdenum Analysis Run 11/17/2022 3:08 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



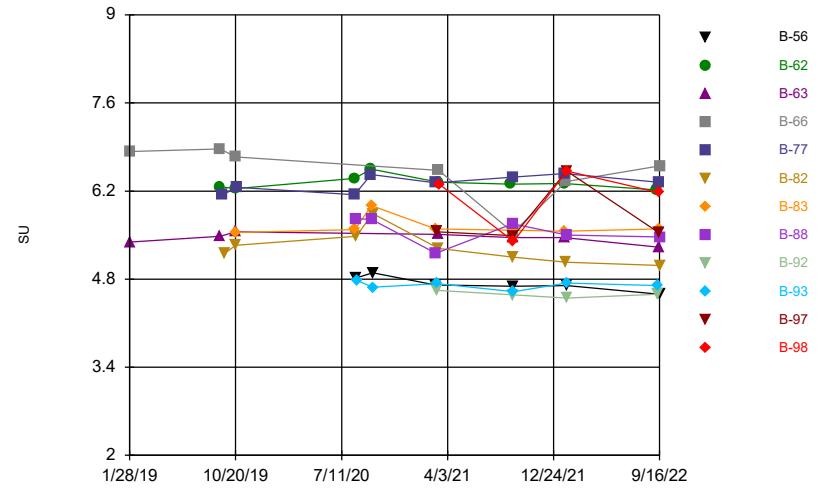
Constituent: Molybdenum Analysis Run 11/17/2022 3:08 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



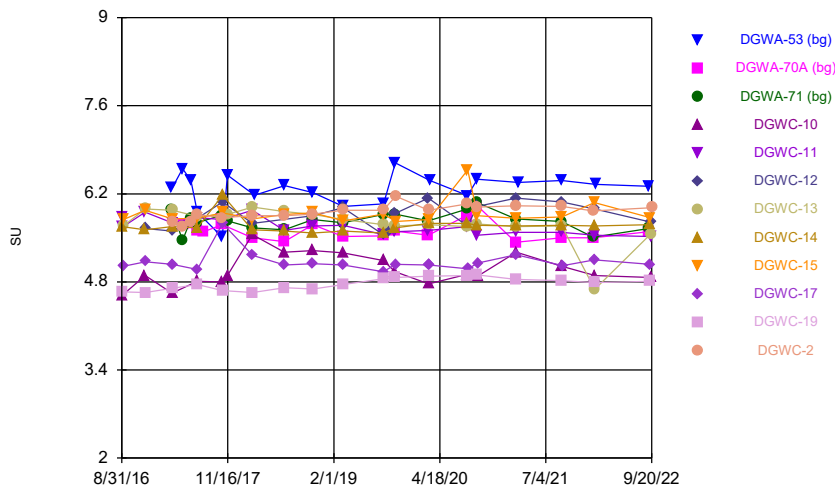
Constituent: pH, Field Analysis Run 11/17/2022 3:08 PM View: Constituents View  
 Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



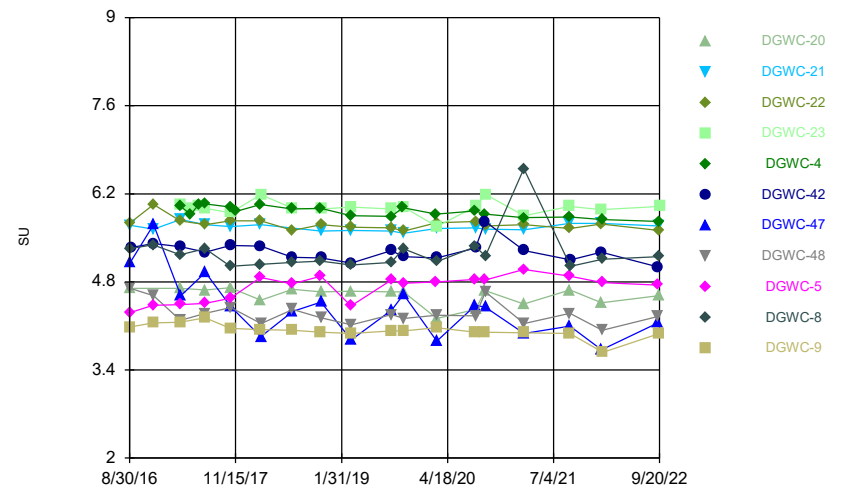
Constituent: pH, Field Analysis Run 11/17/2022 3:08 PM View: Constituents View  
 Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



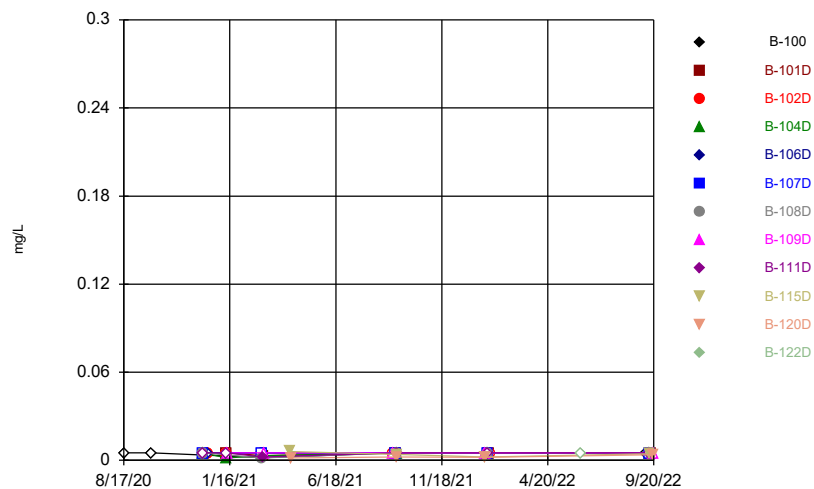
Constituent: pH, Field Analysis Run 11/17/2022 3:08 PM View: Constituents View  
 Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



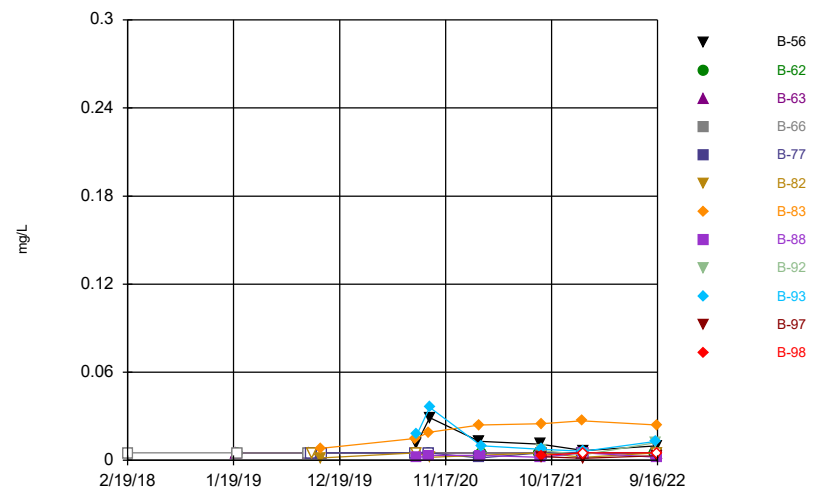
Constituent: pH, Field Analysis Run 11/17/2022 3:08 PM View: Constituents View  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



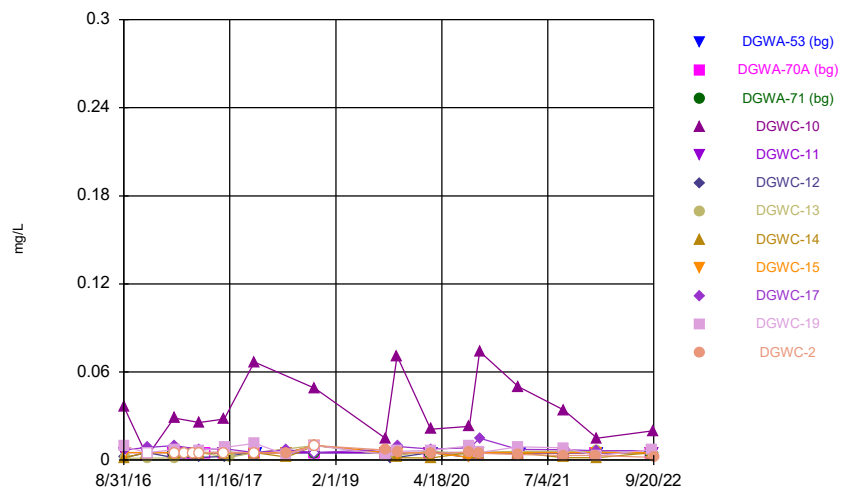
Constituent: Selenium Analysis Run 11/17/2022 3:08 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



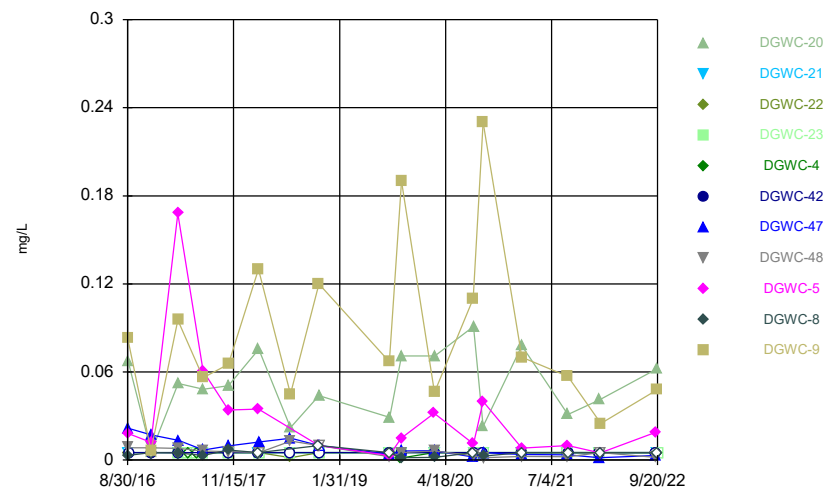
Constituent: Selenium Analysis Run 11/17/2022 3:08 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



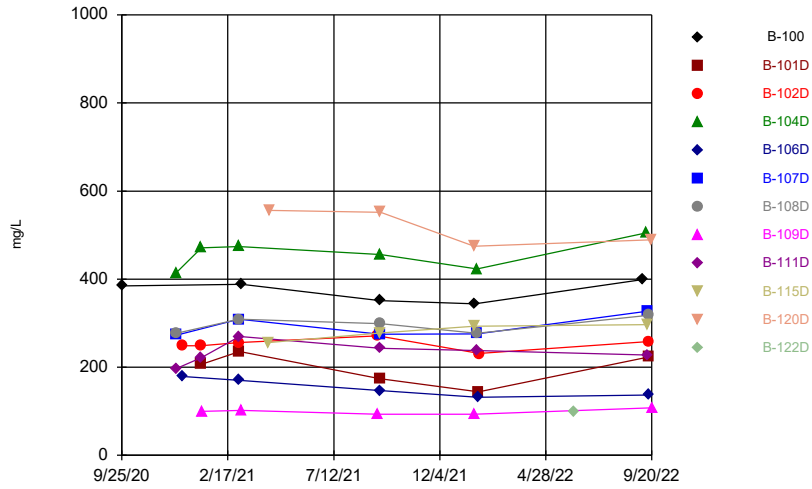
Constituent: Selenium Analysis Run 11/17/2022 3:08 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



Constituent: Selenium Analysis Run 11/17/2022 3:08 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

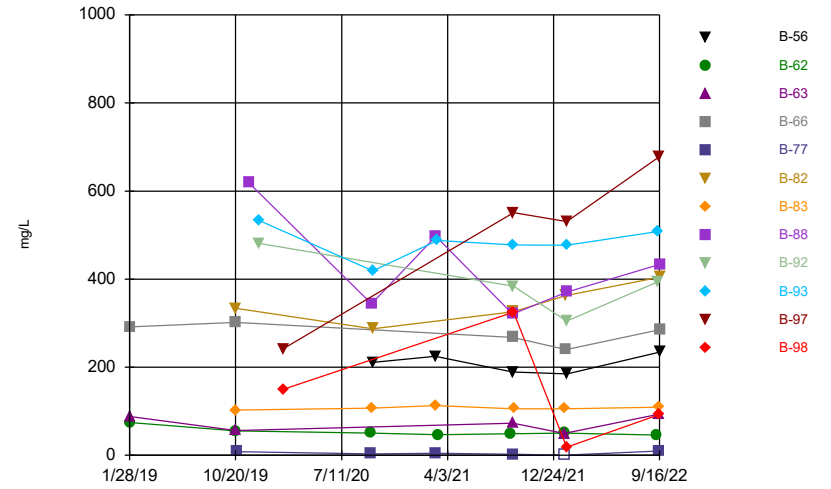
Time Series



Constituent: Sulfate Analysis Run 11/17/2022 3:08 PM View: Constituents View  
 Plant McDonough Client: Southern Company Data: McDonough AP

Hollow symbols indicate censored values.

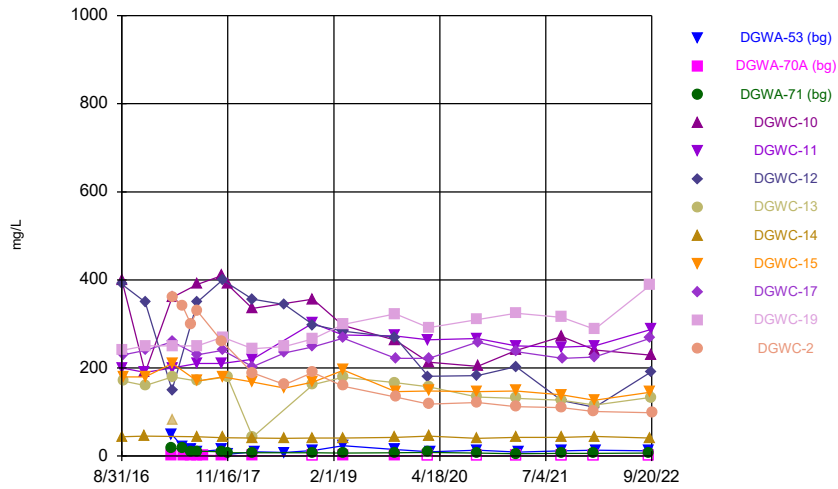
Time Series



Constituent: Sulfate Analysis Run 11/17/2022 3:08 PM View: Constituents View  
 Plant McDonough Client: Southern Company Data: McDonough AP

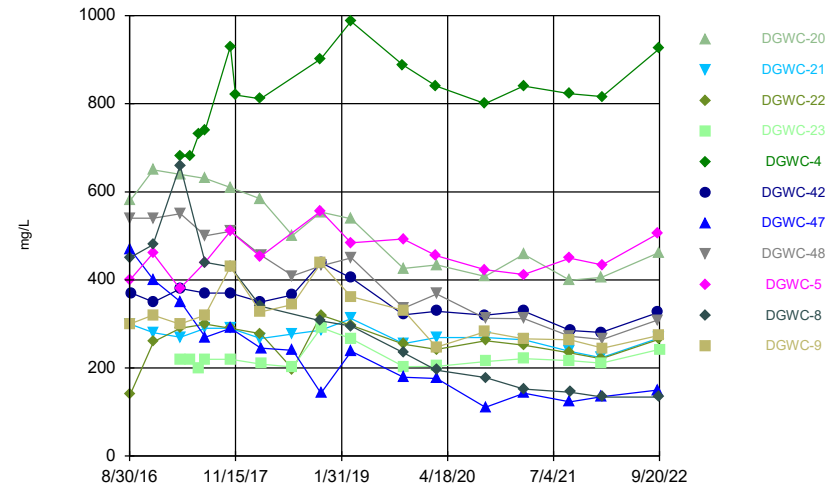
Hollow symbols indicate censored values.

Time Series



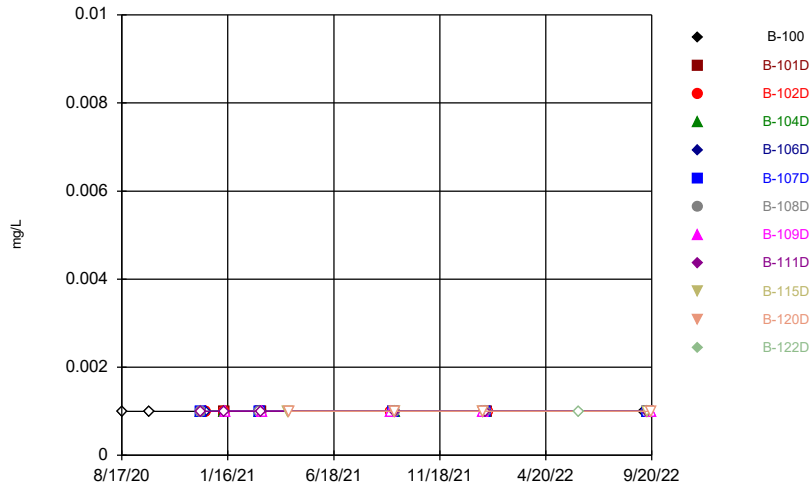
Constituent: Sulfate Analysis Run 11/17/2022 3:08 PM View: Constituents View  
 Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



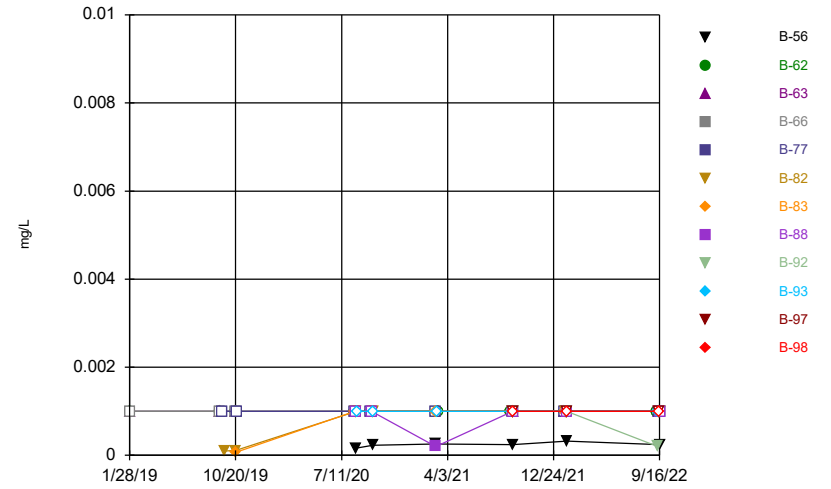
Constituent: Sulfate Analysis Run 11/17/2022 3:08 PM View: Constituents View  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



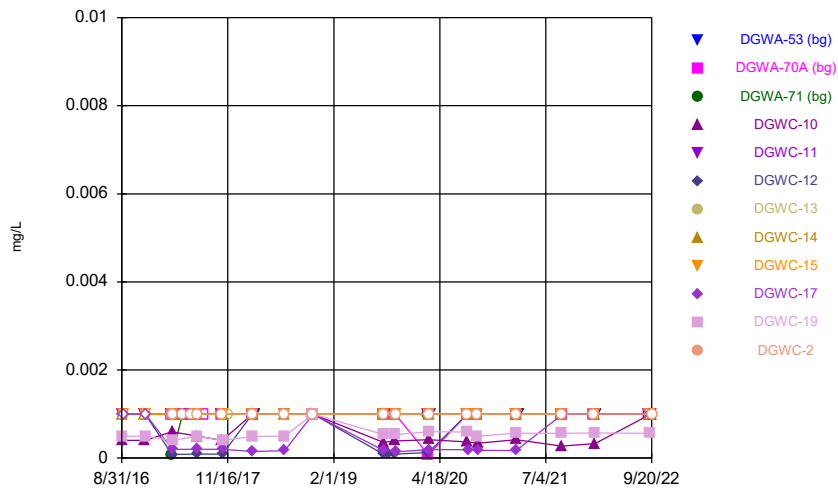
Constituent: Thallium Analysis Run 11/17/2022 3:08 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



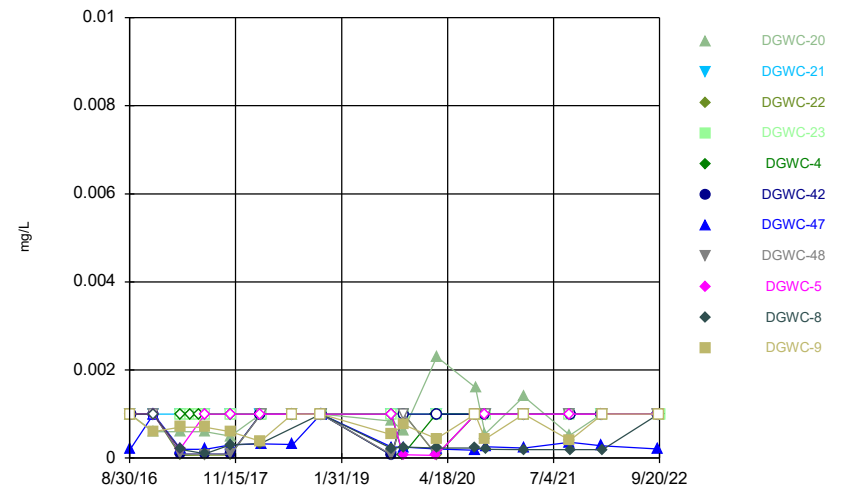
Constituent: Thallium Analysis Run 11/17/2022 3:08 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



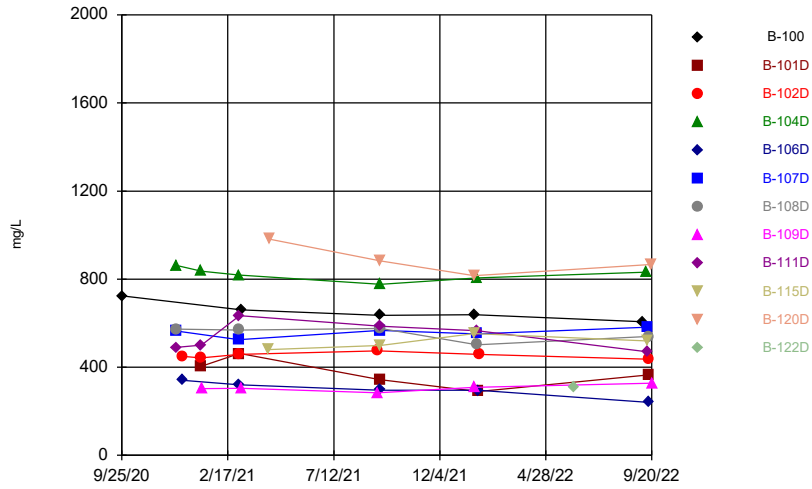
Constituent: Thallium Analysis Run 11/17/2022 3:08 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



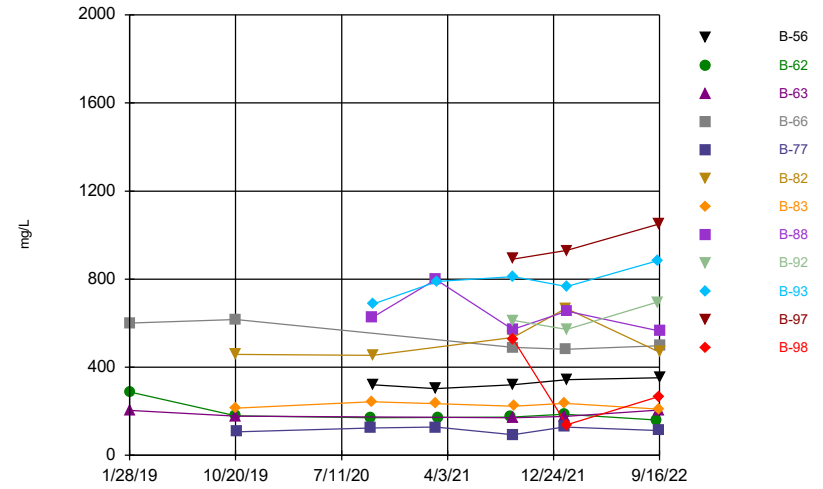
Constituent: Thallium Analysis Run 11/17/2022 3:08 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



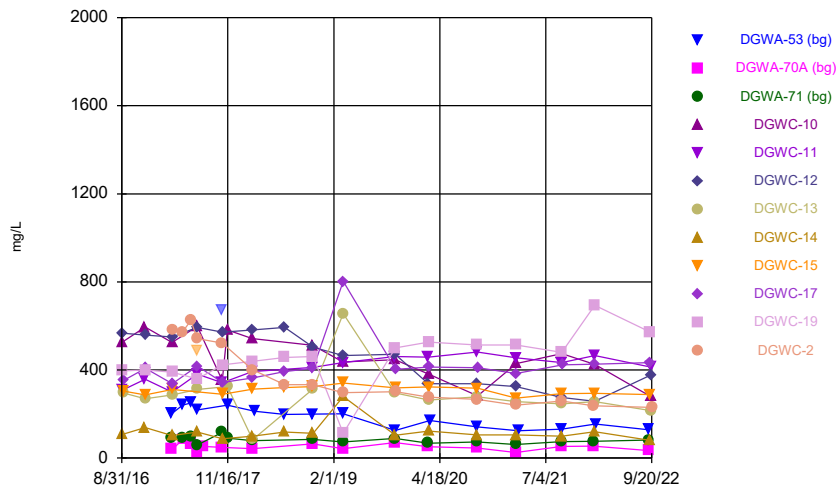
Constituent: Total Dissolved Solids Analysis Run 11/17/2022 3:08 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



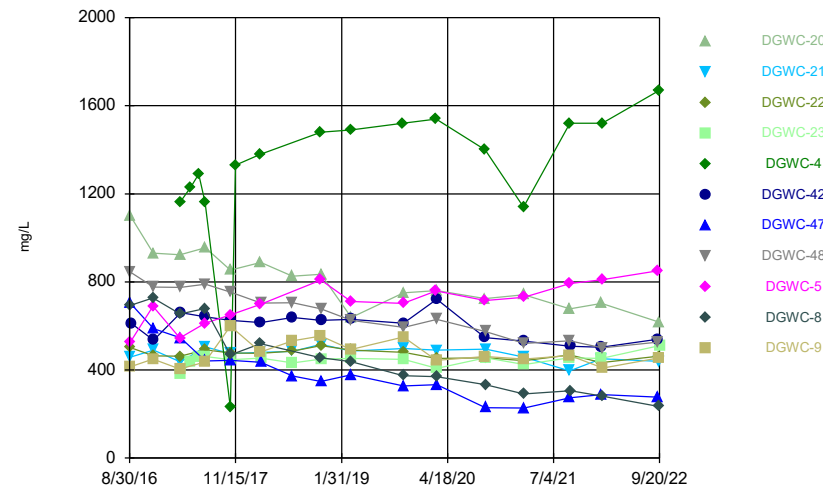
Constituent: Total Dissolved Solids Analysis Run 11/17/2022 3:08 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



Constituent: Total Dissolved Solids Analysis Run 11/17/2022 3:08 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



Constituent: Total Dissolved Solids Analysis Run 11/17/2022 3:08 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

# Time Series

Constituent: Antimony (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D
8/17/2020	0.0013 (J)								
9/25/2020	<0.003								
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)	
3/4/2021			<0.003	0.00077 (J)	<0.003	<0.003	<0.003		
3/5/2021		0.0019 (J)							0.0006 (J)
3/8/2021	0.0017 (J)							0.00084 (J)	
4/14/2021									
4/15/2021									
9/10/2021			<0.003					0.004	
9/13/2021	<0.003	0.001 (J)			<0.003	<0.003			
9/14/2021				<0.003			<0.003		<0.003
1/20/2022								<0.003	
1/21/2022	<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						
6/6/2022									
9/8/2022	<0.003								
9/13/2022				<0.003					
9/14/2022						<0.003			<0.003
9/15/2022			<0.003				<0.003		
9/16/2022		<0.003			<0.003				
9/19/2022									
9/20/2022								<0.003	

# Time Series

Constituent: Antimony (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-115D	B-120D	B-122D
8/17/2020			
9/25/2020			
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/4/2021			
3/5/2021			
3/8/2021			
4/14/2021	<0.003		
4/15/2021		0.00029 (J)	
9/10/2021			
9/13/2021			
9/14/2021	<0.003	<0.003	
1/20/2022	<0.003	<0.003	
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022			
6/6/2022			<0.003
9/8/2022			
9/13/2022			
9/14/2022	<0.003		
9/15/2022			
9/16/2022			
9/19/2022		<0.003	
9/20/2022			



# Time Series

Constituent: Antimony (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-56	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92
1/28/2019			<0.003						
1/30/2019		<0.003		<0.003					
9/11/2019		<0.003	<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	<0.003		
10/22/2019			0.00066 (J)						
10/24/2019					<0.003				
8/13/2020		<0.003			0.00043 (J)				
8/14/2020							<0.003		
8/17/2020	<0.003					<0.003		<0.003	
8/19/2020									
9/24/2020		0.00046 (J)			0.00036 (J)				
9/25/2020							<0.003	<0.003	
9/28/2020	<0.003					<0.003			
3/3/2021	<0.003								
3/4/2021					0.00063 (J)		<0.003		
3/5/2021								<0.003	
3/9/2021									
3/12/2021		<0.003							
9/9/2021		<0.003							
9/13/2021	<0.003							<0.003	
9/14/2021			<0.003	<0.003	<0.003	<0.003			
9/15/2021									<0.003
9/16/2021							<0.003		
1/20/2022		<0.003	<0.003		<0.003				
1/21/2022							<0.003		
1/25/2022				<0.003		<0.003			
1/26/2022									<0.003
1/27/2022	0.0011 (J)							<0.003	
9/8/2022		<0.003							
9/12/2022									<0.003
9/13/2022					<0.003		<0.003		
9/14/2022			<0.003						
9/16/2022	<0.003			<0.003		<0.003		<0.003	

# Time Series

Constituent: Antimony (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-93	B-97	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	<0.003		
9/24/2020			
9/25/2020			
9/28/2020	0.0014 (J)		
3/3/2021			
3/4/2021			
3/5/2021			
3/9/2021	<0.003		
3/12/2021			
9/9/2021			
9/13/2021			
9/14/2021			
9/15/2021	<0.003	<0.003	<0.003
9/16/2021			
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	<0.003	<0.003	<0.003
1/27/2022			
9/8/2022			
9/12/2022	0.00096 (J)		
9/13/2022		<0.003	<0.003
9/14/2022			
9/16/2022			

# Time Series

Constituent: Antimony (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
 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 11/17/2022 3:09 PM View: Constituents View  
 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 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

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	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			
9/7/2022			
9/8/2022			
9/13/2022			
9/14/2022	<0.003	<0.003	
9/15/2022			
9/20/2022			<0.003

# Time Series

Constituent: Antimony (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
 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									<0.003
9/1/2016							<0.003	<0.003	
9/2/2016	<0.003	<0.003	<0.003						
9/7/2016						<0.003			
12/6/2016									<0.003
12/7/2016	<0.003								
12/8/2016		<0.003	<0.003			<0.003	<0.003	<0.003	
3/28/2017					<0.003				<0.003
3/29/2017	<0.003		<0.003						
3/30/2017		<0.003		<0.003				<0.003	
3/31/2017						<0.003	<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		<0.003					
7/13/2017			<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
10/26/2017				<0.003			<0.003	<0.003	
2/27/2018					<0.003				<0.003
2/28/2018	<0.003	<0.003	<0.003			<0.003			
3/1/2018				<0.003			<0.003		
3/2/2018								<0.003	
7/11/2018	<0.003	0.0013 (J)				<0.003			
7/12/2018			<0.003	<0.003			<0.003	<0.003	
11/6/2018					<0.003				<0.003
11/7/2018	<0.003	<0.003	<0.003			<0.003	<0.003	<0.003	
11/8/2018				<0.003					
8/27/2019					<0.003				<0.003
8/28/2019						<0.003			
8/29/2019	<0.003	<0.003	<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				<0.003	<0.003		
10/18/2019			<0.003	<0.003				<0.003	
3/2/2020					0.00058 (J)				0.00032 (J)
3/3/2020		<0.003	<0.003						
3/4/2020	<0.003			<0.003		<0.003	<0.003	<0.003	
8/11/2020									
8/12/2020					<0.003		<0.003		<0.003
8/13/2020	<0.003			<0.003		<0.003		<0.003	
8/14/2020		<0.003	<0.003						
9/22/2020	<0.003				<0.003	<0.003			<0.003
9/23/2020							0.0012 (J)	0.00039 (J)	
9/24/2020		<0.003	<0.003	<0.003					
3/1/2021					0.00049 (J)				
3/2/2021	<0.003								0.0015 (J)
3/3/2021		<0.003	<0.003	<0.003		<0.003	<0.003	<0.003	
9/9/2021		<0.003	<0.003	<0.003					
9/10/2021	<0.003		<0.003		<0.003		<0.003	0.0018 (J)	<0.003
9/13/2021						<0.003			

# Time Series

Constituent: Antimony (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
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
1/20/2022									
1/21/2022	<0.003	<0.003	<0.003	<0.003		<0.003			
1/24/2022					<0.003		<0.003	<0.003	<0.003
1/25/2022									
1/26/2022									
9/13/2022						<0.003	<0.003	<0.003	
9/14/2022									<0.003
9/15/2022	<0.003	<0.003							
9/16/2022			<0.003						
9/19/2022					<0.003				
9/20/2022				<0.003					



# Time Series

Constituent: Antimony (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9
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		
9/22/2020		<0.003
9/23/2020	<0.003	
9/24/2020		
3/1/2021		
3/2/2021	0.00046 (J)	<0.003
3/3/2021		
9/9/2021		
9/10/2021		<0.003
9/13/2021	<0.003	

# Time Series

Constituent: Antimony (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-8	DGWC-9
1/20/2022		
1/21/2022		
1/24/2022		
1/25/2022	<0.003	
1/26/2022		<0.003
9/13/2022		
9/14/2022		
9/15/2022	<0.003	
9/16/2022		
9/19/2022		<0.003
9/20/2022		

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D
7/23/2020	<0.005								
8/17/2020	<0.005								
9/25/2020	<0.005								
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	
3/4/2021			<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							<0.005	
4/14/2021									
4/15/2021									
9/10/2021			<0.005					<0.005	
9/13/2021	<0.005	<0.005			<0.005	<0.005			
9/14/2021				0.0019 (J)			<0.005		0.0029 (J)
1/20/2022								0.0026 (J)	
1/21/2022	<0.005								
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						
6/6/2022									
9/8/2022	<0.005								
9/13/2022				<0.005					
9/14/2022						<0.005			<0.005
9/15/2022			<0.005				<0.005		
9/16/2022		<0.005			<0.005				
9/19/2022									
9/20/2022								<0.005	

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-115D	B-120D	B-122D
7/23/2020			
8/17/2020			
9/25/2020			
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/4/2021			
3/5/2021			
3/8/2021			
4/14/2021	0.0028 (J)		
4/15/2021		<0.005	
9/10/2021			
9/13/2021			
9/14/2021	0.0018 (J)	<0.005	
1/20/2022	0.0027 (J)	0.0016 (J)	
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022			
6/6/2022			<0.005
9/8/2022			
9/13/2022			
9/14/2022	<0.005		
9/15/2022			
9/16/2022			
9/19/2022		<0.005	
9/20/2022			

# Time Series

Constituent: Arsenic (mg/L)    Analysis Run 11/17/2022 3:09 PM    View: Constituents View  
 Plant McDonough    Client: Southern Company    Data: McDonough AP

	B-56	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92
11/22/2016				<0.005					
2/19/2018				<0.005					
1/28/2019			<0.005						
1/30/2019		<0.005		<0.005					
9/11/2019		<0.005	<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	<0.005		
10/22/2019			<0.005						
10/24/2019					0.0029 (J)				
8/13/2020		<0.005			0.002 (J)				
8/14/2020							<0.005		
8/17/2020	0.0032 (J)					<0.005		<0.005	
8/19/2020									
9/24/2020		<0.005			0.0025 (J)				
9/25/2020							<0.005	<0.005	
9/28/2020	0.0047 (J)					<0.005			
3/3/2021	0.003 (J)								
3/4/2021					0.002 (J)		<0.005		
3/5/2021								<0.005	
3/9/2021									
3/12/2021		<0.005		<0.005		<0.005			
9/9/2021		<0.005							
9/13/2021	0.0031 (J)							<0.005	
9/14/2021			<0.005	<0.005	<0.005	<0.005			
9/15/2021									0.0012 (J)
9/16/2021							<0.005		
1/20/2022		0.0033 (J)	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)
1/27/2022	0.0045 (J)							<0.005	
9/8/2022		<0.005							
9/12/2022									<0.005
9/13/2022					<0.005		<0.005		
9/14/2022			<0.005						
9/16/2022	<0.005			<0.005 (D)		<0.005 (D)		<0.005	

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-93	B-97	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	0.0013 (J)		
9/24/2020			
9/25/2020			
9/28/2020	0.0027 (J)		
3/3/2021			
3/4/2021			
3/5/2021			
3/9/2021	<0.005		
3/12/2021			
9/9/2021			
9/13/2021			
9/14/2021			
9/15/2021	<0.005	<0.005	<0.005
9/16/2021			
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	0.002 (J)	0.0014 (J)	<0.005
1/27/2022			
9/8/2022			
9/12/2022	<0.005		
9/13/2022		<0.005	<0.005
9/14/2022			
9/16/2022			

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

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 11/17/2022 3:09 PM View: Constituents View  
 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 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

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	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			
9/7/2022			
9/8/2022			
9/13/2022			
9/14/2022	<0.005	<0.005	
9/15/2022			
9/20/2022			<0.005

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

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)	
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						
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					
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	
9/9/2021		<0.005	<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 11/17/2022 3:09 PM View: Constituents View  
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
1/20/2022		<0.005	<0.005	<0.005		<0.005			
1/21/2022	0.015						0.0036 (J)		
1/24/2022					0.0011 (J)			<0.005	0.0019 (J)
1/25/2022									
1/26/2022									
9/13/2022						<0.005	<0.005	<0.005	
9/14/2022									0.0038 (J)
9/15/2022	0.016	<0.005							
9/16/2022			<0.005						
9/19/2022					<0.005				
9/20/2022				<0.005					

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9
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		
8/11/2020		0.022
8/12/2020	<0.005	
8/13/2020		
8/14/2020		
9/22/2020		0.04
9/23/2020	<0.005	
9/24/2020		
3/1/2021		
3/2/2021	<0.005	0.021
3/3/2021		
9/9/2021		
9/10/2021		0.031
9/13/2021	<0.005	

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-8	DGWC-9
1/20/2022		
1/21/2022		
1/24/2022		
1/25/2022	<0.005	
1/26/2022		0.012
9/13/2022		
9/14/2022		
9/15/2022	<0.005	
9/16/2022		
9/19/2022		0.016
9/20/2022		

# Time Series

Constituent: Barium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D
8/17/2020	0.015								
9/25/2020	0.022								
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	
3/4/2021			0.022	0.021	0.021	0.12	0.06		
3/5/2021		0.064							0.038
3/8/2021	0.022							0.056	
4/14/2021									
4/15/2021									
9/10/2021			0.02					0.022	
9/13/2021	0.021	0.076			0.02	0.087			
9/14/2021				0.021			0.06		0.043
1/20/2022								0.047	
1/21/2022	0.023								
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						
6/6/2022									
9/8/2022	0.021								
9/13/2022				0.021					
9/14/2022						0.057			0.028
9/15/2022			0.019				0.054		
9/16/2022		0.063			0.021				
9/19/2022									
9/20/2022								0.055	

# Time Series

Constituent: Barium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-115D	B-120D	B-122D
8/17/2020			
9/25/2020			
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/4/2021			
3/5/2021			
3/8/2021			
4/14/2021	0.018		
4/15/2021		0.044	
9/10/2021			
9/13/2021			
9/14/2021	0.016	0.031	
1/20/2022	0.015	0.025	
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022			
6/6/2022			0.039
9/8/2022			
9/13/2022			
9/14/2022	0.014		
9/15/2022			
9/16/2022			
9/19/2022		0.023	
9/20/2022			



# Time Series

Constituent: Barium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-56	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92
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	0.03					0.024		0.022	
8/19/2020									
9/24/2020		0.025			0.12				
9/25/2020							0.027	0.021	
9/28/2020	0.026					0.023			
3/3/2021	0.028								
3/4/2021					0.11		0.032		
3/5/2021								0.022	
3/9/2021									
3/12/2021		0.027							
9/9/2021		0.021							
9/13/2021	0.026							0.016	
9/14/2021			0.026	0.018	0.12	0.022			
9/15/2021									0.015
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			
1/26/2022									0.016
1/27/2022	0.03							0.018	
9/8/2022		0.018							
9/12/2022									0.017
9/13/2022					0.089		0.025		
9/14/2022			0.032						
9/16/2022	0.028			0.02		0.02		0.016	

# Time Series

Constituent: Barium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-93	B-97	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	0.018		
9/24/2020			
9/25/2020			
9/28/2020	0.017		
3/3/2021			
3/4/2021			
3/5/2021			
3/9/2021	0.016 (J)		
3/12/2021			
9/9/2021			
9/13/2021			
9/14/2021			
9/15/2021	0.016	0.02	0.082
9/16/2021			
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	0.021	0.02	0.035
1/27/2022			
9/8/2022			
9/12/2022	0.015		
9/13/2022		0.02	0.092
9/14/2022			
9/16/2022			

# Time Series

Constituent: Barium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

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 11/17/2022 3:09 PM View: Constituents View  
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 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

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	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			
9/7/2022			
9/8/2022			
9/13/2022			
9/14/2022	0.031	0.027	
9/15/2022			
9/20/2022			0.02

# Time Series

Constituent: Barium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
 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									0.0266 (O)
9/1/2016							0.0162	0.0157	
9/2/2016	0.0097 (J)	0.0252	0.0397						
9/7/2016						0.0194			
12/6/2016									0.0186
12/7/2016	0.0087 (J)								
12/8/2016		0.0262	0.0408			0.0189	0.0247	0.0155	
3/28/2017					0.0363				0.0187
3/29/2017	0.0094 (J)		0.0417						
3/30/2017		0.0272		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	0.0099 (J)	0.0276		0.0186					
7/13/2017			0.0376			0.021	0.0165	0.014	
10/24/2017					0.0351				
10/25/2017	0.0096 (J)	0.0262	0.0384			0.0196			0.0175
10/26/2017				0.0176			0.0152	0.0117	
2/27/2018						0.0364			0.0172
2/28/2018	<0.01	0.027	0.0353			0.0171			
3/1/2018				0.0164			0.0164		
3/2/2018								0.0131	
7/11/2018	0.01	0.027				0.02			
7/12/2018			0.036	0.022			0.015	0.013	
11/6/2018					0.035				0.016
11/7/2018	0.011	0.024	0.031			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	0.018	0.027	0.031	0.025			0.018	0.014	
10/15/2019					0.033				
10/16/2019									0.02
10/17/2019	0.015	0.027				0.018	0.019		
10/18/2019			0.032	0.019				0.014	
3/2/2020					0.036				0.018
3/3/2020		0.027	0.035						
3/4/2020	0.017			0.032		0.015	0.017	0.014	
8/11/2020									
8/12/2020					0.036		0.016		0.017
8/13/2020	0.019			0.027		0.027		0.013	
8/14/2020		0.027	0.035						
9/22/2020	0.011				0.03	0.016			0.017
9/23/2020							0.014	0.013	
9/24/2020		0.024	0.031	0.02					
3/1/2021					0.039				
3/2/2021	0.021								0.017
3/3/2021		0.024	0.031	0.019		0.015	0.02	0.014	
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 11/17/2022 3:09 PM View: Constituents View  
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
1/20/2022		0.024	0.029	0.024		0.014			
1/21/2022	0.018						0.017		
1/24/2022					0.035			0.014	0.018
1/25/2022									
1/26/2022									
9/13/2022						0.016	0.022	0.014	
9/14/2022									0.018
9/15/2022	0.017	0.024							
9/16/2022			0.029						
9/19/2022					0.032				
9/20/2022				0.019					



# Time Series

Constituent: Barium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9
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		
9/22/2020		0.015
9/23/2020	0.025	
9/24/2020		
3/1/2021		
3/2/2021	0.029	0.017
3/3/2021		
9/9/2021		
9/10/2021		0.014
9/13/2021	0.019	

# Time Series

Constituent: Barium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-8	DGWC-9
1/20/2022		
1/21/2022		
1/24/2022		
1/25/2022	0.019	
1/26/2022		0.016
9/13/2022		
9/14/2022		
9/15/2022	0.021	
9/16/2022		
9/19/2022		0.017
9/20/2022		

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D
8/17/2020	0.0004 (J)								
9/25/2020	0.00035 (J)								
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)	
3/4/2021			0.0012	0.0015	0.00013 (J)	5E-05 (J)	<0.0005		
3/5/2021		4.7E-05 (J)							<0.0005
3/8/2021	0.00046 (J)							7.9E-05 (J)	
4/14/2021									
4/15/2021									
9/10/2021			0.0011					<0.0005	
9/13/2021	0.00053	6.7E-05 (J)			0.00013 (J)	<0.0005			
9/14/2021				0.0011			<0.0005		<0.0005
1/20/2022								7.1E-05 (J)	
1/21/2022	0.00053								
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						
6/6/2022									
9/8/2022	0.00058								
9/13/2022				0.0014					
9/14/2022						<0.0005			<0.0005
9/15/2022			0.001				<0.0005		
9/16/2022		6.7E-05 (J)			0.00011 (J)				
9/19/2022									
9/20/2022								8E-05 (J)	

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-115D	B-120D	B-122D
8/17/2020			
9/25/2020			
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/4/2021			
3/5/2021			
3/8/2021			
4/14/2021	0.012		
4/15/2021		0.00085	
9/10/2021			
9/13/2021			
9/14/2021	0.011	0.00087	
1/20/2022	0.011	0.0011	
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022			
6/6/2022			0.00024 (J)
9/8/2022			
9/13/2022			
9/14/2022	0.01		
9/15/2022			
9/16/2022			
9/19/2022		0.0011	
9/20/2022			

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-56	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92
10/6/2016		9E-05 (J)							
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		<0.0005					
9/11/2019		0.00012 (J)	0.00035 (J)						
9/12/2019				<0.0005					
9/18/2019					0.00011 (J)				
9/23/2019						0.0015 (J)			
10/21/2019		7.8E-05 (J)		<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									
2/17/2020									
2/27/2020									
8/13/2020		0.00011 (J)			0.00014 (J)				
8/14/2020							0.0007 (J)		
8/17/2020	0.0013 (J)					0.0014 (J)		0.0014 (J)	
8/19/2020									
9/24/2020		0.00013 (J)			5.3E-05 (J)				
9/25/2020							0.00028 (J)	0.00063 (J)	
9/28/2020	0.0012 (J)					0.0015 (J)			
3/3/2021	0.0011								
3/4/2021					5.7E-05 (J)		0.00037 (J)		
3/5/2021								0.005	
3/9/2021									0.017
3/12/2021		<0.0005							
3/15/2021									
9/9/2021		0.00014 (J)							
9/13/2021	0.0012							0.001	
9/14/2021			0.00042 (J)	<0.0005	<0.0005	0.0017			
9/15/2021									0.014
9/16/2021							0.00028 (J)		
1/20/2022		0.00015 (J)	0.00034 (J)		<0.0005				
1/21/2022							0.00039 (J)		
1/25/2022				<0.0005		0.0021			
1/26/2022									0.018
1/27/2022	0.0012							0.0019	
9/8/2022		0.00013 (J)							
9/12/2022									0.017
9/13/2022					0.00013 (J)		0.00044 (J)		
9/14/2022			0.00053						
9/16/2022	0.0013			<0.0005		0.002		0.0013	

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-93	B-97	B-98
10/6/2016			
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	0.0069		
2/17/2020		<0.0005	<0.0005
2/27/2020		0.0019 (J)	<0.0005
8/13/2020			
8/14/2020			
8/17/2020			
8/19/2020	0.015		
9/24/2020			
9/25/2020			
9/28/2020	0.015		
3/3/2021			
3/4/2021			
3/5/2021			
3/9/2021	0.017	0.0019	
3/12/2021			
3/15/2021			<0.0005
9/9/2021			
9/13/2021			
9/14/2021			
9/15/2021	0.015	0.0016	0.00087
9/16/2021			
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	0.017	0.0017	6.8E-05 (J)
1/27/2022			
9/8/2022			
9/12/2022	0.017		
9/13/2022		0.0017	6.2E-05 (J)
9/14/2022			
9/16/2022			







# Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
 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 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

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	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			
9/7/2022			
9/8/2022			
9/13/2022			
9/14/2022	0.00058	0.0018	
9/15/2022			
9/20/2022			<0.0005

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
 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									0.0054
9/1/2016							0.0165	0.008	
9/2/2016	0.0026 (J)	0.0001 (J)	0.0002 (J)						
9/7/2016						0.0021 (J)			
12/6/2016									0.0064
12/7/2016	0.0035								
12/8/2016		0.0001 (J)	0.0001 (J)			0.0023 (J)	0.0116	0.0086	
3/28/2017					0.0002 (J)				0.0049
3/29/2017	0.0026 (J)		0.0002 (J)						
3/30/2017		0.0002 (J)		0.0004 (J)				0.0106	
3/31/2017						0.0025 (J)	0.0112		
5/12/2017				0.0004 (J)	0.0002 (J)				
6/15/2017				0.0004 (J)	0.0001 (J)				
7/11/2017					0.0001 (J)				0.005
7/12/2017	0.0025 (J)	0.0001 (J)		0.0004 (J)					
7/13/2017			0.0002 (J)			0.0025 (J)	0.0098	0.0106	
10/24/2017					0.0002 (J)				
10/25/2017	0.0027 (J)	0.0002 (J)	0.0002 (J)			0.0026 (J)			0.0069
10/26/2017				0.0004 (J)			0.0119	0.0078	
2/27/2018					<0.0005				0.0086
2/28/2018	<0.0005	<0.0005	<0.0005			<0.0005			
3/1/2018				<0.0005			0.0146		
3/2/2018								0.0096	
7/11/2018	0.0026 (J)	0.00016 (J)				0.0029 (J)			
7/12/2018			0.00018 (J)	0.00035 (J)			0.013	0.0086	
11/6/2018					<0.003 (J)				0.01
11/7/2018	<0.003 (J)	<0.003 (J)	<0.003 (J)			0.0031	0.014	0.0078	
11/8/2018				<0.003 (J)					
8/27/2019					0.00024 (J)				0.01
8/28/2019						0.0023 (J)			
8/29/2019	0.005	0.00018 (J)	0.00015 (J)	0.00041 (J)			0.011	0.0081	
10/15/2019					0.00022 (J)				
10/16/2019									0.0072
10/17/2019	0.0041	0.00015 (J)				0.0027 (J)	0.0093		
10/18/2019			0.00014 (J)	0.00038 (J)				0.0099	
3/2/2020					0.00025 (J)				0.0098
3/3/2020		0.00019 (J)	0.00017 (J)						
3/4/2020	0.0089			0.00077 (J)		0.0029 (J)	0.01	0.008	
8/11/2020									
8/12/2020					0.00024 (J)		0.0068		0.0081
8/13/2020	0.0063			0.00041 (J)		0.0026 (J)		0.0071	
8/14/2020		0.0002 (J)	0.00016 (J)						
9/22/2020	0.0027 (J)				0.00019 (J)	0.0013 (J)			0.0081
9/23/2020							0.0069	0.0072	
9/24/2020		0.00018 (J)	0.00017 (J)	0.00045 (J)					
3/1/2021					0.00027 (J)				
3/2/2021	0.0057								0.0063
3/3/2021		0.00017 (J)	0.00013 (J)	0.0005		0.0023	0.0081	0.0068	
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 11/17/2022 3:09 PM View: Constituents View  
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
1/20/2022		0.00019 (J)	0.00014 (J)	0.00046 (J)		0.002			
1/21/2022	0.007						0.01		
1/24/2022					0.00033 (J)			0.0069	0.0084
1/25/2022									
1/26/2022									
9/13/2022						0.0028	0.0094	0.0071	
9/14/2022									0.01
9/15/2022	0.0056	0.00018 (J)							
9/16/2022			0.00023 (J)						
9/19/2022					0.00034 (J)				
9/20/2022				0.00037 (J)					

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9
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		
9/22/2020		0.0049
9/23/2020	0.0015 (J)	
9/24/2020		
3/1/2021		
3/2/2021	0.0012	0.005
3/3/2021		
9/9/2021		
9/10/2021		0.0049
9/13/2021	0.0015	

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-8	DGWC-9
1/20/2022		
1/21/2022		
1/24/2022		
1/25/2022	0.0012	
1/26/2022		0.0054
9/13/2022		
9/14/2022		
9/15/2022	0.00088	
9/16/2022		
9/19/2022		0.0047
9/20/2022		



# Time Series

Constituent: Boron (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-115D	B-120D	B-122D
9/25/2020			
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/4/2021			
3/5/2021			
3/8/2021			
4/14/2021	0.69		
4/15/2021		1.9	
9/10/2021			
9/13/2021			
9/14/2021	0.61	1.7	
1/20/2022	0.55	1.9	
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022			
6/6/2022			0.2
9/8/2022			
9/13/2022			
9/14/2022	0.58		
9/15/2022			
9/16/2022			
9/19/2022		1.7	
9/20/2022			



# Time Series

Constituent: Boron (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
 Plant McDonough Client: Southern Company Data: McDonough AP

Date	B-56	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92
10/6/2016		0.053 (J)							
11/22/2016				1.1					
1/28/2019			0.44						
1/30/2019		0.14		2					
9/11/2019		0.068	0.26						
9/12/2019				2					
9/18/2019					0.3				
9/23/2019						1.4			
10/21/2019		0.058		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									
9/24/2020		0.074 (J)			0.27				
9/25/2020							0.35	1.8	
9/28/2020	1.4					1.1			
3/3/2021	1.4								
3/4/2021					0.35		0.33		
3/5/2021								3.5	
3/9/2021									2.9
3/12/2021		0.092 (J)							
9/9/2021		0.068							
9/13/2021	1.5							2	
9/14/2021			0.35	2.1	0.29	0.78			
9/15/2021									2.3
9/16/2021							0.3		
1/20/2022		0.077	0.21		0.28				
1/21/2022							0.32		
1/25/2022				2.3		0.7			
1/26/2022									2.7
1/27/2022	1.6							2.7	
9/8/2022		0.064							
9/12/2022									2.9
9/13/2022					0.33		0.33		
9/14/2022			0.38						
9/16/2022	1.6			2.2		0.61		2.1	

# Time Series

Constituent: Boron (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-93	B-97	B-98
10/6/2016			
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	3.3		
9/24/2020			
9/25/2020			
9/28/2020	3		
3/3/2021			
3/4/2021			
3/5/2021			
3/9/2021	3.4		
3/12/2021			
9/9/2021			
9/13/2021			
9/14/2021			
9/15/2021	3.1	3.3	2.6
9/16/2021			
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	3.6	3.7	0.12
1/27/2022			
9/8/2022			
9/12/2022	3.6		
9/13/2022		3.7	0.62
9/14/2022			
9/16/2022			





# Time Series

Constituent: Boron (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
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 (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

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	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			
9/7/2022			
9/8/2022			
9/13/2022			
9/14/2022	0.87	2.4	
9/15/2022			
9/20/2022			0.42



# Time Series

Constituent: Boron (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
1/26/2022									
9/13/2022						1.1	0.18	0.61	
9/14/2022									5
9/15/2022	4.2	6.7							
9/16/2022			4.2						
9/19/2022					4.8				
9/20/2022				4.6					



# Time Series

Constituent: Boron (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9
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		
3/1/2021		
3/2/2021	0.96	0.77
3/3/2021		
9/9/2021		
9/10/2021		0.54
9/13/2021	0.86	
1/20/2022		
1/21/2022		
1/24/2022		
1/25/2022	0.98	

# Time Series

Constituent: Boron (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-8	DGWC-9
1/26/2022		0.69
9/13/2022		
9/14/2022		
9/15/2022	0.83	
9/16/2022		
9/19/2022		0.8
9/20/2022		

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D
8/17/2020	0.00059 (J)								
9/25/2020	0.00027 (J)								
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	
3/4/2021			0.00081	<0.0005	0.00021 (J)	<0.0005	<0.0005		
3/5/2021		<0.0005							<0.0005
3/8/2021	0.00027 (J)							<0.0005	
4/14/2021									
4/15/2021									
9/10/2021			0.00083					<0.0005	
9/13/2021	0.00029 (J)	<0.0005			0.00024 (J)	<0.0005			
9/14/2021				<0.0005			<0.0005		<0.0005
1/20/2022								<0.0005	
1/21/2022	0.00059								
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						
6/6/2022									
9/8/2022	0.00027 (J)								
9/13/2022				<0.0005					
9/14/2022						<0.0005			<0.0005
9/15/2022			0.00091				<0.0005		
9/16/2022		<0.0005			<0.0005				
9/19/2022									
9/20/2022								<0.0005	

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-115D	B-120D	B-122D
8/17/2020			
9/25/2020			
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/4/2021			
3/5/2021			
3/8/2021			
4/14/2021	0.00041 (J)		
4/15/2021		0.001	
9/10/2021			
9/13/2021			
9/14/2021	0.00035 (J)	0.0011	
1/20/2022	0.00029 (J)	0.00098	
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022			
6/6/2022			<0.0005
9/8/2022			
9/13/2022			
9/14/2022	0.00018 (J)		
9/15/2022			
9/16/2022			
9/19/2022		0.0012	
9/20/2022			

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-56	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92
1/28/2019			<0.0005						
1/30/2019		<0.0005		<0.0005					
9/11/2019		<0.0005	<0.0005						
9/12/2019				<0.0005					
9/18/2019					<0.0005				
9/23/2019						0.00044 (J)			
10/21/2019		<0.0005		<0.0005		0.00035 (J)	0.00041 (J)		
10/22/2019			0.00014 (J)						
10/24/2019					<0.0005				
8/13/2020		<0.0005			<0.0005				
8/14/2020							0.00037 (J)		
8/17/2020	0.00029 (J)					0.00058 (J)		0.0018 (J)	
8/19/2020									
9/24/2020		<0.0005			<0.0005				
9/25/2020							0.00026 (J)	0.00022 (J)	
9/28/2020	0.00024 (J)					0.00066 (J)			
3/3/2021	0.00026 (J)								
3/4/2021					<0.0005		0.00032 (J)		
3/5/2021								0.0065	
3/9/2021									
3/12/2021		<0.0005							
9/9/2021		<0.0005							
9/13/2021	0.00028 (J)							0.0013	
9/14/2021			0.00025 (J)	<0.0005	<0.0005	0.0007			
9/15/2021									0.00096
9/16/2021							0.0003 (J)		
1/20/2022		<0.0005	<0.0005		<0.0005				
1/21/2022							0.0003 (J)		
1/25/2022				<0.0005		0.00072			
1/26/2022									0.001
1/27/2022	0.00025 (J)							0.0036	
9/8/2022		<0.0005							
9/12/2022									0.0014
9/13/2022					<0.0005		0.00031 (J)		
9/14/2022			0.00018 (J)						
9/16/2022	0.0003 (J)			<0.0005		0.00073		0.0019	

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-93	B-97	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	0.00077 (J)		
9/24/2020			
9/25/2020			
9/28/2020	0.00074 (J)		
3/3/2021			
3/4/2021			
3/5/2021			
3/9/2021	0.00075 (J)		
3/12/2021			
9/9/2021			
9/13/2021			
9/14/2021			
9/15/2021	0.00088	0.00056	0.0003 (J)
9/16/2021			
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	0.00079	0.00055	<0.0005
1/27/2022			
9/8/2022			
9/12/2022	0.00084		
9/13/2022		0.00055	0.00031 (J)
9/14/2022			
9/16/2022			

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
 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 11/17/2022 3:09 PM View: Constituents View  
 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 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

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	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			
9/7/2022			
9/8/2022			
9/13/2022			
9/14/2022	0.00024 (J)	0.00032 (J)	
9/15/2022			
9/20/2022			<0.0005

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
 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									0.0002 (J)
9/1/2016							0.0017	0.0013	
9/2/2016	0.0023	0.0006 (J)	0.0003 (J)						
9/7/2016						0.0007 (J)			
12/6/2016									0.0004 (J)
12/7/2016	0.0023								
12/8/2016		0.0006 (J)	0.0004 (J)			0.0003 (J)	0.0002 (J)	0.0042	
3/28/2017					0.0006 (J)				0.0002 (J)
3/29/2017	0.0021		0.0004 (J)						
3/30/2017		0.0008 (J)		0.0002 (J)				0.0089	
3/31/2017						0.0009 (J)	0.002		
5/12/2017				0.0003 (J)	0.0006 (J)				
6/15/2017				0.0002 (J)	0.0005 (J)				
7/11/2017					0.0006 (J)				0.0003 (J)
7/12/2017	0.0021	0.0006 (J)		0.0002 (J)					
7/13/2017			0.0005 (J)			0.0008 (J)	0.0017	0.0033	
10/24/2017					0.0007 (J)				
10/25/2017	0.002	0.0005 (J)	0.0007 (J)			0.0005 (J)			0.0006 (J)
10/26/2017				0.0003 (J)			0.0015	0.0032	
2/27/2018					<0.0005				<0.0005
2/28/2018	0.0018	<0.0005	<0.0005			<0.0005			
3/1/2018				<0.0005			0.0025		
3/2/2018								0.0049	
7/11/2018	0.0018	0.00054 (J)				0.0024			
7/12/2018			0.00091 (J)	0.00028 (J)			0.0021	0.0032	
11/6/2018					<0.001 (J)				<0.001 (J)
11/7/2018	0.0018	<0.001 (J)	<0.001 (J)			<0.001 (J)	0.0016	0.0031	
11/8/2018				<0.001 (J)					
8/27/2019					0.00072 (J)				0.00082 (J)
8/28/2019						0.0015 (J)			
8/29/2019	0.002 (J)	0.00087 (J)	0.00053 (J)	0.00022 (J)			0.0021 (J)	0.003	
10/15/2019					0.00077 (J)				
10/16/2019									0.00069 (J)
10/17/2019	0.0017 (J)	0.0006 (J)				0.00058 (J)	0.0033		
10/18/2019			0.00056 (J)	0.00022 (J)				0.0028	
3/2/2020					0.00088 (J)				0.00089 (J)
3/3/2020		0.00063 (J)	0.00061 (J)						
3/4/2020	0.0026			0.00024 (J)		0.00037 (J)	0.0017 (J)	0.0036	
8/11/2020									
8/12/2020					0.0008 (J)		0.001 (J)		0.00079 (J)
8/13/2020	0.0021 (J)			0.00027 (J)		0.0013 (J)		0.0028	
8/14/2020		0.00054 (J)	0.00057 (J)						
9/22/2020	0.0014 (J)				0.00065 (J)	0.0007 (J)			0.00072 (J)
9/23/2020							0.0013 (J)	0.0025	
9/24/2020		0.00073 (J)	0.00058 (J)	0.00018 (J)					
3/1/2021					0.00085				
3/2/2021	0.0025								0.00075
3/3/2021		0.00044 (J)	0.0005	0.00015 (J)		0.00038 (J)	0.0016	0.0033	
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 11/17/2022 3:09 PM View: Constituents View  
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
1/20/2022		<0.0005	0.00052	0.00012 (J)		0.00038 (J)			
1/21/2022	0.0028						0.0019		
1/24/2022					0.00098			0.0029	0.00094
1/25/2022									
1/26/2022									
9/13/2022						0.00069	0.0011	0.0026	
9/14/2022									0.00087
9/15/2022	0.0021	0.00029 (J)							
9/16/2022			0.00065						
9/19/2022					0.00091				
9/20/2022				0.00017 (J)					

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9
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		
9/22/2020		0.00059 (J)
9/23/2020	0.0018 (J)	
9/24/2020		
3/1/2021		
3/2/2021	0.0017	0.00057
3/3/2021		
9/9/2021		
9/10/2021		0.00053
9/13/2021	0.002	

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-8	DGWC-9
1/20/2022		
1/21/2022		
1/24/2022		
1/25/2022	0.0016	
1/26/2022		0.00059
9/13/2022		
9/14/2022		
9/15/2022	0.0011	
9/16/2022		
9/19/2022		0.00076
9/20/2022		



# Time Series

Constituent: Calcium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-115D	B-120D	B-122D
9/25/2020			
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/4/2021			
3/5/2021			
3/8/2021			
4/14/2021	52		
4/15/2021		171	
9/10/2021			
9/13/2021			
9/14/2021	63	162	
1/20/2022	83.6	158	
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022			
6/6/2022			48.3
9/8/2022			
9/13/2022			
9/14/2022	65.5		
9/15/2022			
9/16/2022			
9/19/2022		142	
9/20/2022			



# Time Series

Constituent: Calcium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-56	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92
1/28/2019			<25						
1/30/2019		51.4		62.4					
10/21/2019		31.2		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									
2/17/2020									
9/24/2020		28.8			17.9				
9/25/2020							39.8	79.8	
9/28/2020	15.1					26.5			
3/3/2021	18.5								
3/4/2021					14.8		39.1		
3/5/2021								128	
3/9/2021									
3/12/2021		28.8							
9/9/2021		29.2							
9/13/2021	15.2							80.5	
9/14/2021			22.7	60.9	17	33.4			
9/15/2021									110
9/16/2021							39.4		
1/20/2022		36.3	22.9		18.6				
1/21/2022							40.8		
1/25/2022				54.9		36.4			
1/26/2022									96
1/27/2022	19.8							105	
9/8/2022		31.4							
9/12/2022									104
9/13/2022					15.7		36.2		
9/14/2022			26.3						
9/16/2022	18.4			63.9		34.3		97.6	

# Time Series

Constituent: Calcium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-93	B-97	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	168		
2/17/2020		190	85.9
9/24/2020			
9/25/2020			
9/28/2020	110		
3/3/2021			
3/4/2021			
3/5/2021			
3/9/2021	127		
3/12/2021			
9/9/2021			
9/13/2021			
9/14/2021			
9/15/2021	129	178	105
9/16/2021			
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	141	198	31.9
1/27/2022			
9/8/2022			
9/12/2022	133		
9/13/2022		201	63.3
9/14/2022			
9/16/2022			

# Time Series

Constituent: Calcium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

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 (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
 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 (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

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	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			
9/7/2022			
9/8/2022			
9/13/2022			
9/14/2022	16.4	105	
9/15/2022			
9/20/2022			37.8



# Time Series

Constituent: Calcium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
1/26/2022									
9/13/2022						34.2	24.8	65.3	
9/14/2022									117
9/15/2022	70.1	82.2							
9/16/2022			66.2						
9/19/2022					376				
9/20/2022				90					



# Time Series

Constituent: Calcium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9
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		
3/1/2021		
3/2/2021	35.6	48.8
3/3/2021		
9/9/2021		
9/10/2021		47.7
9/13/2021	36	
1/20/2022		
1/21/2022		
1/24/2022		
1/25/2022	36.8	

# Time Series

Constituent: Calcium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-8	DGWC-9
1/26/2022		48.4
9/13/2022		
9/14/2022		
9/15/2022	29.3	
9/16/2022		
9/19/2022		45.1
9/20/2022		



# Time Series

Constituent: Chloride (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-115D	B-120D	B-122D
9/25/2020			
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/4/2021			
3/5/2021			
3/8/2021			
4/14/2021	7.9		
4/15/2021		6.2	
9/10/2021			
9/13/2021			
9/14/2021	9	6.1	
1/20/2022	15.8	6	
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022			
6/6/2022			18.4
9/8/2022			
9/13/2022			
9/14/2022	10.7		
9/15/2022			
9/16/2022			
9/19/2022		5.8	
9/20/2022			

# Time Series

Constituent: Chloride (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-56	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92
1/28/2019			7.9						
1/30/2019		7.1		9.3					
10/21/2019		6.5		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									
2/17/2020									
9/24/2020		5.7			5.3				
9/25/2020							3	10	
9/28/2020	8.7					9.9			
3/3/2021	8.3								
3/4/2021					2.9		3.2		
3/5/2021								7.8	
3/9/2021									
3/12/2021		5.9							
9/9/2021		5.8							
9/13/2021	7.1							8.2	
9/14/2021			7.1	8.9	4.7	9.5			
9/15/2021									10.4
9/16/2021							2.6		
1/20/2022		5.6	15		5				
1/21/2022							2.4		
1/25/2022				8.7		9.9			
1/26/2022									9.4
1/27/2022	7.6							8.8	
9/8/2022		5.3							
9/12/2022									10.2
9/13/2022					2.4		2.5		
9/14/2022			6.5						
9/16/2022	6.9			8.4		9.4		8.7	

# Time Series

Constituent: Chloride (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-93	B-97	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	10.4		
2/17/2020		20.9	96.8
9/24/2020			
9/25/2020			
9/28/2020	10.8		
3/3/2021			
3/4/2021			
3/5/2021			
3/9/2021	13.5		
3/12/2021			
9/9/2021			
9/13/2021			
9/14/2021			
9/15/2021	13.2	18.8	29.9
9/16/2021			
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	14.7	19.8	4.9
1/27/2022			
9/8/2022			
9/12/2022	15		
9/13/2022		19.5	4.9
9/14/2022			
9/16/2022			

# Time Series

Constituent: Chloride (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

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 (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
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 (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

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	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			
9/7/2022			
9/8/2022			
9/13/2022			
9/14/2022	19	18.7	
9/15/2022			
9/20/2022			2

# Time Series

Constituent: Chloride (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

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					
3/1/2021					15				
3/2/2021	28								9.8
3/3/2021		19.7	20.6	14		20.8	2.9	14.2	
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			
1/21/2022	27						3.1		
1/24/2022					12.5			11.3	9.9

# Time Series

Constituent: Chloride (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
1/25/2022									
1/26/2022									
9/13/2022						18.7	3.3	8.9	
9/14/2022									11.2
9/15/2022	26.2	17.6							
9/16/2022			18						
9/19/2022					11.2				
9/20/2022				11.6					

# Time Series

Constituent: Chloride (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9
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		
3/1/2021		
3/2/2021	8.6	8.4
3/3/2021		
9/9/2021		
9/10/2021		9
9/13/2021	8.2	
1/20/2022		
1/21/2022		
1/24/2022		

# Time Series

Constituent: Chloride (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-8	DGWC-9
1/25/2022	9.3	
1/26/2022		9.1
9/13/2022		
9/14/2022		
9/15/2022	8.3	
9/16/2022		
9/19/2022		13.2
9/20/2022		

# Time Series

Constituent: Chromium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D
8/17/2020	<0.005								
9/25/2020	0.00094 (J)								
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	
3/4/2021			<0.005	<0.005	<0.005	<0.005	<0.005		
3/5/2021		<0.005							<0.005
3/8/2021	0.00057 (J)							0.00061 (J)	
4/14/2021									
4/15/2021									
9/10/2021			<0.005					<0.005	
9/13/2021	<0.005	0.0014 (J)			<0.005	<0.005			
9/14/2021				<0.005			<0.005		<0.005
1/20/2022								<0.005	
1/21/2022	<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						
6/6/2022									
9/8/2022	<0.005								
9/13/2022				<0.005					
9/14/2022						<0.005			<0.005
9/15/2022			<0.005				<0.005		
9/16/2022		<0.005			<0.005				
9/19/2022									
9/20/2022								<0.005	

# Time Series

Constituent: Chromium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-115D	B-120D	B-122D
8/17/2020			
9/25/2020			
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/4/2021			
3/5/2021			
3/8/2021			
4/14/2021	<0.005		
4/15/2021		<0.005	
9/10/2021			
9/13/2021			
9/14/2021	<0.005	<0.005	
1/20/2022	<0.005	<0.005	
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022			
6/6/2022			<0.005
9/8/2022			
9/13/2022			
9/14/2022	<0.005		
9/15/2022			
9/16/2022			
9/19/2022		<0.005	
9/20/2022			



# Time Series

Constituent: Chromium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-56	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92
1/28/2019			<0.005						
1/30/2019		<0.005		<0.005					
9/11/2019		<0.005	<0.005						
9/12/2019				<0.005					
9/18/2019					0.00068 (J)				
9/23/2019						0.0011 (J)			
10/21/2019		0.00098 (J)		<0.005		<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	0.0014 (J)					<0.005		0.0014 (J)	
8/19/2020									
9/24/2020		<0.005			0.0007 (J)				
9/25/2020							0.0051 (J)	0.00085 (J)	
9/28/2020	<0.005					<0.005			
3/3/2021	0.00059 (J)								
3/4/2021					0.00098 (J)		0.0049 (J)		
3/5/2021								0.0017 (J)	
3/9/2021									
3/12/2021		<0.005							
9/9/2021		<0.005							
9/13/2021	<0.005							<0.005	
9/14/2021			<0.005	<0.005	<0.005	<0.005			
9/15/2021									<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		<0.005			
1/26/2022									<0.005
1/27/2022	0.0014 (J)							<0.005	
9/8/2022		<0.005							
9/12/2022									<0.005
9/13/2022					<0.005		0.0022 (J)		
9/14/2022			<0.005						
9/16/2022	<0.005			<0.005		<0.005		<0.005	

# Time Series

Constituent: Chromium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-93	B-97	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	0.00057 (J)		
9/24/2020			
9/25/2020			
9/28/2020	0.00066 (J)		
3/3/2021			
3/4/2021			
3/5/2021			
3/9/2021	<0.005		
3/12/2021			
9/9/2021			
9/13/2021			
9/14/2021			
9/15/2021	<0.005	<0.005	<0.005
9/16/2021			
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	0.0011 (J)	<0.005	0.0013 (J)
1/27/2022			
9/8/2022			
9/12/2022	<0.005		
9/13/2022		<0.005	<0.005
9/14/2022			
9/16/2022			

# Time Series

Constituent: Chromium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
 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 11/17/2022 3:09 PM View: Constituents View  
 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 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

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	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			
9/7/2022			
9/8/2022			
9/13/2022			
9/14/2022	0.0023 (J)	0.0024 (J)	
9/15/2022			
9/20/2022			<0.005

# Time Series

Constituent: Chromium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
 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									<0.005
9/1/2016							<0.005	<0.005	
9/2/2016	0.0017 (J)	<0.005	0.0012 (J)						
9/7/2016						<0.005			
12/6/2016									<0.005
12/7/2016	<0.005								
12/8/2016		<0.005	<0.005			<0.005	<0.005	<0.005	
3/28/2017					0.0005 (J)				<0.005
3/29/2017	0.0016 (J)		<0.005						
3/30/2017		0.0005 (J)		0.0012 (J)				<0.005	
3/31/2017						0.001 (J)	0.0007 (J)		
5/12/2017				0.0004 (J)	<0.005				
6/15/2017				0.0005 (J)	<0.005				
7/11/2017					<0.005				<0.005
7/12/2017	<0.005	0.0006 (J)		0.0007 (J)					
7/13/2017			<0.005			0.0008 (J)	<0.005	0.0007 (J)	
10/24/2017					<0.005				
10/25/2017	0.0015 (J)	<0.005	<0.005			0.0005 (J)			<0.005
10/26/2017				0.0007 (J)			<0.005	<0.005	
2/27/2018					<0.005				<0.005
2/28/2018	<0.005	<0.005	<0.005			<0.005			
3/1/2018				<0.005			<0.005		
3/2/2018								<0.005	
7/11/2018	<0.005	<0.005				<0.005			
7/12/2018			<0.005	<0.005			<0.005	<0.005	
11/6/2018					<0.005				<0.005
11/7/2018	<0.01 (J)	<0.005	<0.005			<0.005	<0.005	<0.005	
11/8/2018				<0.005					
8/27/2019					<0.005				<0.005
8/28/2019						<0.005			
8/29/2019	0.0017 (J)	0.00041 (J)	<0.005	<0.005			<0.005	<0.005	
10/15/2019					<0.005				
10/16/2019									<0.005
10/17/2019	0.0015 (J)	<0.005				0.00041 (J)	<0.005		
10/18/2019			<0.005	0.00041 (J)				<0.005	
3/2/2020					<0.005				0.00045 (J)
3/3/2020		0.00048 (J)	<0.005						
3/4/2020	0.0032 (J)			0.00081 (J)		0.00042 (J)	<0.005	0.0004 (J)	
8/11/2020									
8/12/2020					<0.005		<0.005		<0.005
8/13/2020	0.0023 (J)			0.00085 (J)		0.0021 (J)		<0.005	
8/14/2020		<0.005	<0.005						
9/22/2020	0.0013 (J)				<0.005	0.001 (J)			<0.005
9/23/2020							<0.005	<0.005	
9/24/2020		0.00096 (J)	<0.005	0.00084 (J)					
3/1/2021					<0.005				
3/2/2021	0.0022 (J)								<0.005
3/3/2021		0.002 (J)	<0.005	0.0014 (J)		<0.005	<0.005	<0.005	
9/9/2021		<0.005	<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 11/17/2022 3:09 PM View: Constituents View  
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
1/20/2022		<0.005	<0.005	<0.005		<0.005			
1/21/2022	0.0021 (J)						<0.005		
1/24/2022					<0.005			<0.005	<0.005
1/25/2022									
1/26/2022									
9/13/2022						<0.005	<0.005	<0.005	
9/14/2022									<0.005
9/15/2022	0.0014 (J)	<0.005							
9/16/2022			<0.005						
9/19/2022					<0.005				
9/20/2022				<0.005					



# Time Series

Constituent: Chromium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9
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		
9/22/2020		<0.005
9/23/2020	0.00086 (J)	
9/24/2020		
3/1/2021		
3/2/2021	0.0015 (J)	0.00059 (J)
3/3/2021		
9/9/2021		
9/10/2021		<0.005
9/13/2021	<0.005	

# Time Series

Constituent: Chromium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-8	DGWC-9
1/20/2022		
1/21/2022		
1/24/2022		
1/25/2022	<0.005	
1/26/2022		0.0029 (J)
9/13/2022		
9/14/2022		
9/15/2022	<0.005	
9/16/2022		
9/19/2022		<0.005
9/20/2022		

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D
7/23/2020	0.086								
8/3/2020	0.087								
8/17/2020	0.077								
9/25/2020	0.034								
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	
3/4/2021			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	0.029							<0.005	
4/14/2021									
4/15/2021									
9/10/2021			0.013					<0.005	
9/13/2021	0.035	0.003 (J)			0.00056 (J)	0.00083 (J)			
9/14/2021				0.1			0.0017 (J)		<0.005
1/20/2022								<0.005	
1/21/2022	0.034								
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						
6/6/2022									
9/8/2022	0.028								
9/13/2022				0.14					
9/14/2022						0.00061 (J)			<0.005
9/15/2022			0.012				0.001 (J)		
9/16/2022		0.0035 (J)			<0.005				
9/19/2022									
9/20/2022								<0.005	

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-115D	B-120D	B-122D
7/23/2020			
8/3/2020			
8/17/2020			
9/25/2020			
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/4/2021			
3/5/2021			
3/8/2021			
4/14/2021	0.3		
4/15/2021		0.017	
9/10/2021			
9/13/2021			
9/14/2021	0.28	0.0055	
1/20/2022	0.24	0.0045 (J)	
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022			
6/6/2022			0.006
9/8/2022			
9/13/2022			
9/14/2022	0.23		
9/15/2022			
9/16/2022			
9/19/2022		0.0027 (J)	
9/20/2022			

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-56	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92
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)				
9/23/2019						0.0038 (J)			
10/21/2019		0.00031 (J)		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									
2/17/2020									
8/13/2020		<0.005			0.0011 (J)				
8/14/2020							0.021		
8/17/2020	0.042					0.0028 (J)		0.0031 (J)	
8/19/2020									
9/24/2020		<0.005			0.0004 (J)				
9/25/2020							0.0073	0.0015 (J)	
9/28/2020	0.042					0.0053			
3/3/2021	0.05								
3/4/2021					0.0017 (J)		0.0099		
3/5/2021								0.022	
3/9/2021									
3/12/2021		<0.005	0.046	0.01		0.0021 (J)			
3/15/2021									
9/9/2021		<0.005							
9/13/2021	0.047							0.0018 (J)	
9/14/2021			0.037	0.012	<0.005	0.0015 (J)			
9/15/2021									0.063
9/16/2021							0.011		
1/20/2022		<0.005	0.039		<0.005				
1/21/2022							0.011		
1/25/2022				0.013		0.0039 (J)			
1/26/2022									0.071
1/27/2022	0.052							0.0038 (J)	
9/8/2022		<0.005							
9/9/2022		<0.005							
9/12/2022									0.073
9/13/2022					<0.005 (D)		0.012		
9/14/2022			0.0465 (D)						
9/16/2022	0.051			0.012 (D)		0.00175 (JD)		0.00135 (JD)	

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-93	B-97	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	0.066		
2/17/2020			<0.005
8/13/2020			
8/14/2020			
8/17/2020			
8/19/2020	0.068		
9/24/2020			
9/25/2020			
9/28/2020	0.064		
3/3/2021			
3/4/2021			
3/5/2021			
3/9/2021	0.061		
3/12/2021			
3/15/2021			<0.005
9/9/2021			
9/13/2021			
9/14/2021			
9/15/2021	0.062	0.003 (J)	0.0048 (J)
9/16/2021			
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	0.064	0.003 (J)	<0.005
1/27/2022			
9/8/2022			
9/9/2022			
9/12/2022	0.057		
9/13/2022		0.0029 (J)	0.00063 (J)
9/14/2022			
9/16/2022			

# Time Series

Constituent: Cobalt (mg/L)    Analysis Run 11/17/2022 3:09 PM    View: Constituents View  
 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 11/17/2022 3:09 PM View: Constituents View  
 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 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

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	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			
9/7/2022			
9/8/2022			
9/13/2022			
9/14/2022	0.016	0.052	
9/15/2022			
9/20/2022			0.0028 (J)

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

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									0.055
9/1/2016							0.536	0.539	
9/2/2016	0.497	0.0085 (J)	0.0102						
9/7/2016						0.0695			
12/6/2016									0.0432
12/7/2016	0.614								
12/8/2016		0.0095 (J)	0.0079 (J)			0.0652	0.381	0.575	
3/28/2017					0.0018 (J)				0.04
3/29/2017	0.443		0.0097 (J)						
3/30/2017		0.0076 (J)		<0.005				0.573	
3/31/2017						0.0524	0.354		
5/12/2017				<0.005	0.0015 (J)				
6/15/2017				0.0003 (J)	0.0015 (J)				
7/11/2017					0.0015 (J)				0.0351 (J)
7/12/2017	0.538	0.0092 (J)		<0.005					
7/13/2017			0.0106			0.0481	0.396	0.531	
10/24/2017					0.0017 (J)				
10/25/2017	0.432	0.0092 (J)	0.0094 (J)			0.0435			0.0209
10/26/2017				<0.005			0.383	0.482	
2/27/2018					<0.005				0.024
2/28/2018	0.459	<0.005	<0.005			0.0167			
3/1/2018				<0.005			0.401		
3/2/2018								0.49	
7/11/2018	0.47	0.0097 (J)				0.019			
7/12/2018			0.011	<0.005			0.36	0.46	
11/6/2018					<0.01 (J)				0.019
11/7/2018	0.42	<0.01 (J)	<0.01 (J)			0.02	0.35	0.48	
11/8/2018				<0.01 (J)					
8/27/2019					0.0018 (J)				0.02
8/28/2019						0.029			
8/29/2019	0.66	0.01	0.0094	0.00036 (J)			0.28	0.42	
10/15/2019					0.0018 (J)				
10/16/2019									0.022
10/17/2019	0.57	0.01				0.03	0.26		
10/18/2019			0.0084	<0.005				0.41	
3/2/2020					0.0021 (J)				0.028
3/3/2020		0.01	0.0098						
3/4/2020	0.84			0.00043 (J)		0.014	0.28	0.42	
8/11/2020									
8/12/2020					0.0018 (J)		0.21		0.021
8/13/2020	0.73			0.00048 (J)		0.025		0.35	
8/14/2020		0.0098	0.0087						
9/22/2020	0.47				0.0014 (J)	0.014			0.02
9/23/2020							0.17	0.37	
9/24/2020		0.01	0.01	<0.005					
3/1/2021					0.002 (J)				
3/2/2021	0.77								0.021
3/3/2021		0.0087	0.0078	0.00039 (J)		0.0087	0.2	0.36	
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 11/17/2022 3:09 PM View: Constituents View  
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
1/20/2022		0.0076	0.0075	0.00058 (J)		0.0056			
1/21/2022	0.95						0.24		
1/24/2022					0.0019 (J)			0.34	0.025
1/25/2022									
1/26/2022									
9/13/2022						0.0069	0.21	0.31	
9/14/2022									0.027
9/15/2022	0.75	0.0081							
9/16/2022			0.0098						
9/19/2022					0.0018 (J)				
9/20/2022				0.00053 (J)					

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9
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		
8/11/2020		0.22
8/12/2020	0.053	
8/13/2020		
8/14/2020		
9/22/2020		0.16
9/23/2020	0.04	
9/24/2020		
3/1/2021		
3/2/2021	0.033	0.18
3/3/2021		
9/9/2021		
9/10/2021		0.21
9/13/2021	0.028	

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-8	DGWC-9
1/20/2022		
1/21/2022		
1/24/2022		
1/25/2022	0.019	
1/26/2022		0.22
9/13/2022		
9/14/2022		
9/15/2022	0.0046 (J)	
9/16/2022		
9/19/2022		0.25
9/20/2022		



# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-115D	B-120D	B-56
8/17/2020			1.15 (U)
9/25/2020			
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			
4/14/2021	14.7		
4/15/2021		2.31	
9/10/2021			
9/13/2021			0.854 (U)
9/14/2021	11.9	3.68	
1/20/2022	9.86	1.21 (U)	
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022			0.831 (U)
9/8/2022			
9/13/2022			
9/14/2022	13.3		
9/15/2022			
9/16/2022			0.752 (U)
9/19/2022		2.22	
9/20/2022			



# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93
3/28/2017									
5/11/2017									
6/15/2017									
7/12/2017									
10/24/2017									
3/8/2018									
7/12/2018									
11/7/2018									
1/28/2019		2.14 (U)							
1/30/2019	1.97 (U)		0.975 (U)						
8/28/2019									
10/16/2019									
10/21/2019	1.82		1.07 (U)		0.63 (U)	0.792 (U)			
10/22/2019		1.28 (U)							
10/24/2019				1.87					
3/9/2020									
8/13/2020	1.63			2.17					
8/14/2020						0.95 (U)			
8/17/2020					0.662 (U)		2.47		
8/19/2020									1.19 (U)
9/22/2020									
9/24/2020	1.28 (U)			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)
3/12/2021	1.18 (U)								
9/9/2021	1.7								
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
9/16/2021						0.442 (U)			
1/20/2022	1.71	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)
1/27/2022							1.18		
1/28/2022									
9/8/2022									
9/9/2022	1.96								
9/12/2022								2.34	1.09
9/13/2022				1.11		0.893 (U)			
9/14/2022		1.61							
9/16/2022			0.832 (U)		0.694 (U)		1.25		

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-97	B-98	DGWA-53 (bg)
3/28/2017			6.36
5/11/2017			3.45
6/15/2017			4.58
7/12/2017			4.37
10/24/2017			4.46
3/8/2018			2.14
7/12/2018			4.65
11/7/2018			3.05
1/28/2019			
1/30/2019			
8/28/2019			2.68
10/16/2019			1.89
10/21/2019			
10/22/2019			
10/24/2019			
3/9/2020			3.51
8/13/2020			1.04
8/14/2020			
8/17/2020			
8/19/2020			
9/22/2020			2.27
9/24/2020			
9/25/2020			
9/28/2020			
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021			1.63
9/9/2021			2.72
9/13/2021			
9/14/2021			
9/15/2021	2.11	2.2	
9/16/2021			
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	1.47 (U)	0.52 (U)	
1/27/2022			
1/28/2022			2.1
9/8/2022			1.69
9/9/2022			
9/12/2022			
9/13/2022	1.11	2.03	
9/14/2022			
9/16/2022			

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17
8/31/2016			1.08	1.09			0.997 (U)		
9/1/2016					1.11				
9/2/2016									
9/6/2016						1.32		0.731 (U)	
9/7/2016									1.17
12/6/2016			1.31	0.409 (U)			0.659 (U)		
12/7/2016					2.66	1.76		1.73	
12/8/2016									1.65
3/28/2017	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)	0.865 (U)
5/11/2017									
5/12/2017		0.165 (U)							
5/15/2017	0.288 (U)								
6/15/2017	1.01 (U)								
6/16/2017		0.732 (U)							
7/11/2017	0.254 (U)	0.461 (U)							
7/12/2017			0.831	0.85 (U)	0.538 (U)	1.36	1.03 (U)	0.584 (U)	0.362 (U)
8/8/2017	1.48								
10/24/2017	0.472 (U)	0.724 (U)	0.838 (U)	0.98 (U)					
10/25/2017					0.216 (U)		0.607 (U)	0.454 (U)	0.401 (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	1.1 (U)
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	0.64 (U)
11/6/2018	0.859 (U)	0.455 (U)	1.46	1.41					
11/7/2018					0.414 (U)	1.22 (U)	0.593 (U)	0.786 (U)	0.795 (U)
8/27/2019	1.97	1.3 (U)	1.58	2.13	0.434 (U)		1.17 (U)		1.12
8/28/2019						1.43		1.01 (U)	
8/29/2019									
10/15/2019	0.319 (U)	1.21 (U)	0.831 (U)	0.622 (U)	0.359 (U)				
10/16/2019						1.73	1.04 (U)		
10/17/2019								1.03 (U)	
10/18/2019									0.89 (U)
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									0.493 (U)
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								3.58	
8/14/2020									0.804 (U)
9/22/2020	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						0.369 (U)
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				0.66 (U)
3/4/2021			1.48						
9/8/2021		0.051 (U)							
9/9/2021	0.779 (U)			1.2 (U)	1.78	1.23 (U)	0.643 (U)	0.624 (U)	
9/10/2021			0.882 (U)						



# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-2	DGWC-20
8/31/2016			
9/1/2016	1.07 (U)		
9/2/2016			1.48
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016	0.903 (U)		1.26 (U)
12/8/2016			
3/28/2017			
3/29/2017	0.302 (U)		0.373 (U)
3/30/2017		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	0.283 (U)		0.91 (U)
8/8/2017			
10/24/2017		1.19	
10/25/2017	0.927 (U)		0.853 (U)
11/15/2017			
2/27/2018		0.863 (U)	
2/28/2018	0.813 (U)		0.727 (U)
7/10/2018			
7/11/2018	0.751 (U)	0.663 (U)	1.3
11/6/2018		0.664	
11/7/2018	1.02		0.746 (U)
8/27/2019		1.6	
8/28/2019	0.661 (U)		
8/29/2019			0.996 (U)
10/15/2019			
10/16/2019	1.79		
10/17/2019		1.74	2
10/18/2019			
3/2/2020			
3/3/2020	0.383 (U)	1.23	
3/4/2020			1.67
8/11/2020	0.723 (U)	1.37	
8/12/2020			
8/13/2020			1.77
8/14/2020			
9/22/2020	0.96 (U)		1.61 (U)
9/23/2020		1.96 (U)	
9/24/2020			
3/1/2021			
3/2/2021	0.775 (U)	1.54 (U)	1.76
3/3/2021			
3/4/2021			
9/8/2021			
9/9/2021	0.239 (U)	1.22 (U)	
9/10/2021			0.689 (U)

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-19	DGWC-2	DGWC-20
9/13/2021			
1/18/2022			
1/20/2022		0.722 (U)	
1/21/2022			0.826 (U)
1/24/2022			
1/25/2022	0.415 (U)		
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022	0.674 (U)		
9/15/2022			1.38
9/20/2022		0.45 (U)	

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8
8/30/2016									0.919 (U)
8/31/2016								2.49	
9/1/2016						4.47	2.37		
9/2/2016	0.908 (U)	1.54							
9/7/2016					0.876 (U)				
12/6/2016								0.348 (U)	0.407 (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		0.715 (U)							0.28 (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	0.209 (U)
7/12/2017	1.22		0.703 (U)						
7/13/2017		1.14			1.08 (U)	2.37	1.78		
10/24/2017				1.24					0.615 (U)
10/25/2017	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	1.05 (U)
2/28/2018	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)	0.363 (U)
7/11/2018	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	0.577 (U)
11/7/2018	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)				0.815 (U)
8/29/2019	0.582 (U)	1.87	2.21			3.05	2.37		
10/15/2019				2.11 (U)					
10/16/2019								1.63	0.999 (U)
10/17/2019	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)							0.481 (U)
3/4/2020			1.39		0.722 (U)	1.68	1.31		
8/11/2020									
8/12/2020				1.95		2.56		1.13	0.721 (U)
8/13/2020			1.48 (U)		1.23 (U)		1.74		
8/14/2020	0.602 (U)	1.83							
9/22/2020				1.43 (U)	1.03 (U)			1.4 (U)	
9/23/2020						2.3 (U)	1.51 (U)		0.8 (U)
9/24/2020	0.396 (U)	1.02 (U)	1.49						
3/1/2021				1.05 (U)					
3/2/2021								0.971 (U)	0.751 (U)
3/3/2021	0.248 (U)	0.547 (U)	1.05 (U)		0.92 (U)	1.27 (U)	1.41		
9/9/2021	0.702 (U)		1.81						
9/10/2021		0.616 (U)		1.46		2.32	2.21	1.15	
9/13/2021					1.15 (U)				0.916 (U)

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8
1/20/2022	0.337 (U)	0.298 (U)	0.61 (U)		0.0465 (U)				
1/21/2022						0.785 (U)			
1/24/2022				0.944 (U)			0.668 (U)	0.807 (U)	
1/25/2022									0.356 (U)
1/26/2022									
9/13/2022					0.829 (U)	1.97	1.42		
9/14/2022								0.665 (U)	
9/15/2022	0.771 (U)								0.896
9/16/2022		1.01							
9/19/2022				1.55					
9/20/2022			1.17 (U)						



# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-9
8/30/2016	1.33
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	0.828 (U)
12/8/2016	
3/28/2017	1.06
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	0.62 (U)
7/12/2017	
7/13/2017	
10/24/2017	1.21
10/25/2017	
10/26/2017	
2/27/2018	1.79
2/28/2018	
3/1/2018	
3/2/2018	
7/10/2018	
7/11/2018	1.81
7/12/2018	
11/6/2018	1.13
11/7/2018	
11/8/2018	
8/27/2019	1.55
8/28/2019	
8/29/2019	
10/15/2019	
10/16/2019	
10/17/2019	0.702 (U)
10/18/2019	
3/2/2020	
3/3/2020	1.37
3/4/2020	
8/11/2020	0.819 (U)
8/12/2020	
8/13/2020	
8/14/2020	
9/22/2020	1.15 (U)
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	1.29 (U)
3/3/2021	
9/9/2021	
9/10/2021	1.28
9/13/2021	

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

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DGWC-9

1/20/2022	
1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	0.789 (U)
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	1.38
9/20/2022	



# Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-115D	B-120D	B-122D
8/17/2020			
9/25/2020			
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/4/2021			
3/5/2021			
3/8/2021			
4/14/2021	0.99		
4/15/2021		<0.1	
9/10/2021			
9/13/2021			
9/14/2021	1	<0.1	
1/20/2022	0.59	<0.1	
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022			
6/6/2022			0.2
9/8/2022			
9/13/2022			
9/14/2022	0.63		
9/15/2022			
9/16/2022			
9/19/2022		0.057 (J)	
9/20/2022			

# Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-56	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92
1/28/2019			0.45						
1/30/2019		0.43		0.51					
10/21/2019		0.23 (J)		0.3 (J)		0.2 (J)	0.13 (J)		
10/22/2019			0.2 (J)						
10/24/2019					0.096 (J)				
8/13/2020		0.11			<0.1				
8/14/2020							0.05 (J)		
8/17/2020	0.19					<0.1		<0.1	
8/19/2020									
9/24/2020		0.093 (J)			<0.1				
9/25/2020							<0.1	<0.1	
9/28/2020	0.098 (J)					<0.1			
3/3/2021	0.34								
3/4/2021					<0.1		0.071 (J)		
3/5/2021								<0.1	
3/9/2021									
3/12/2021		0.11							
9/9/2021		0.14							
9/13/2021	0.2							<0.1	
9/14/2021			0.16	0.22	0.078 (J)	0.052 (J)			
9/15/2021									0.18
9/16/2021							0.066 (J)		
1/20/2022		0.099 (J)	0.12		<0.1				
1/21/2022							<0.1		
1/25/2022				0.12		<0.1			
1/26/2022									0.3
1/27/2022	0.21							<0.1	
9/8/2022		0.13							
9/12/2022									0.24
9/13/2022					0.08 (J)		0.081 (J)		
9/14/2022			0.14						
9/16/2022	0.22			0.18		0.079 (J)		0.054 (J)	

# Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-93	B-97	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	0.32		
9/24/2020			
9/25/2020			
9/28/2020	0.3		
3/3/2021			
3/4/2021			
3/5/2021			
3/9/2021	0.34		
3/12/2021			
9/9/2021			
9/13/2021			
9/14/2021			
9/15/2021	0.34	0.085 (J)	0.098 (J)
9/16/2021			
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	0.41	0.088 (J)	0.13
1/27/2022			
9/8/2022			
9/12/2022	0.4		
9/13/2022		0.14	0.18
9/14/2022			
9/16/2022			

# Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

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 (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
 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 (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

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	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			
9/7/2022			
9/8/2022			
9/13/2022			
9/14/2022	0.1	0.18	
9/15/2022			
9/20/2022			0.076 (J)



# Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
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		<0.1	<0.1	0.063 (J)		<0.1	0.71	0.67	
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			
1/20/2022		<0.1	<0.1	<0.1		<0.1			
1/21/2022	1.3						0.64		
1/24/2022					<0.1			0.59	0.19
1/25/2022									
1/26/2022									
9/13/2022						<0.1	0.47	0.43	
9/14/2022									0.27
9/15/2022	0.69	0.087 (J)							
9/16/2022			0.068 (J)						
9/19/2022					0.061 (J)				
9/20/2022				0.11					

# Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9
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		
9/22/2020		0.99
9/23/2020	<0.1	
9/24/2020		
3/1/2021		
3/2/2021	0.059 (J)	0.93

# Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-8	DGWC-9
3/3/2021		
9/9/2021		
9/10/2021		2
9/13/2021	0.069 (J)	
1/20/2022		
1/21/2022		
1/24/2022		
1/25/2022	<0.1	
1/26/2022		1.2
9/13/2022		
9/14/2022		
9/15/2022	0.077 (J)	
9/16/2022		
9/19/2022		0.8
9/20/2022		

# Time Series

Constituent: Lead (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D
8/17/2020	8.8E-05 (J)								
9/25/2020	0.00021 (J)								
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	
3/4/2021			5.9E-05 (J)	<0.001	<0.001	<0.001	<0.001		
3/5/2021		6.5E-05 (J)							<0.001
3/8/2021	0.00018 (J)							<0.001	
4/14/2021									
4/15/2021									
9/10/2021			<0.001					<0.001	
9/13/2021	<0.001	<0.001			<0.001	<0.001			
9/14/2021				<0.001			<0.001		<0.001
1/20/2022								<0.001	
1/21/2022	<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						
6/6/2022									
9/8/2022	<0.001								
9/13/2022				<0.001					
9/14/2022						<0.001			<0.001
9/15/2022			<0.001				<0.001		
9/16/2022		<0.001			<0.001				
9/19/2022									
9/20/2022								<0.001	

# Time Series

Constituent: Lead (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-115D	B-120D	B-122D
8/17/2020			
9/25/2020			
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/4/2021			
3/5/2021			
3/8/2021			
4/14/2021	0.00032 (J)		
4/15/2021		0.00019 (J)	
9/10/2021			
9/13/2021			
9/14/2021	<0.001	<0.001	
1/20/2022	<0.001	<0.001	
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022			
6/6/2022			<0.001
9/8/2022			
9/13/2022			
9/14/2022	<0.001		
9/15/2022			
9/16/2022			
9/19/2022		<0.001	
9/20/2022			



# Time Series

Constituent: Lead (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-56	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92
1/28/2019			<0.001						
1/30/2019		<0.001		<0.001					
9/11/2019		<0.001	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		<0.001	0.00012 (J)		
10/22/2019			7.3E-05 (J)						
10/24/2019					<0.001				
8/13/2020		<0.001			0.0016 (J)				
8/14/2020							0.00092 (J)		
8/17/2020	0.00022 (J)					5.9E-05 (J)		0.00081 (J)	
8/19/2020									
9/24/2020		<0.001			0.00021 (J)				
9/25/2020							6.5E-05 (J)	0.00035 (J)	
9/28/2020	9.1E-05 (J)					0.00011 (J)			
3/3/2021	0.0001 (J)								
3/4/2021					0.00029 (J)		0.00017 (J)		
3/5/2021								0.012	
3/9/2021									
3/12/2021		<0.001							
9/9/2021		<0.001							
9/13/2021	<0.001							<0.001	
9/14/2021			<0.001	<0.001	<0.001	<0.001			
9/15/2021									<0.001
9/16/2021							<0.001		
1/20/2022		<0.001	<0.001		<0.001				
1/21/2022							<0.001		
1/25/2022				<0.001		<0.001			
1/26/2022									<0.001
1/27/2022	<0.001							0.0022	
9/8/2022		<0.001							
9/12/2022									<0.001
9/13/2022					<0.001		<0.001		
9/14/2022			<0.001						
9/16/2022	<0.001			<0.001		<0.001		<0.001	

# Time Series

Constituent: Lead (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-93	B-97	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	0.00012 (J)		
9/24/2020			
9/25/2020			
9/28/2020	0.00012 (J)		
3/3/2021			
3/4/2021			
3/5/2021			
3/9/2021	<0.001		
3/12/2021			
9/9/2021			
9/13/2021			
9/14/2021			
9/15/2021	<0.001	<0.001	<0.001
9/16/2021			
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	<0.001	<0.001	<0.001
1/27/2022			
9/8/2022			
9/12/2022	<0.001		
9/13/2022		<0.001	<0.001
9/14/2022			
9/16/2022			

# Time Series

Constituent: Lead (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

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 11/17/2022 3:09 PM View: Constituents View  
 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 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

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	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			
9/7/2022			
9/8/2022			
9/13/2022			
9/14/2022	<0.001	<0.001	
9/15/2022			
9/20/2022			<0.001

# Time Series

Constituent: Lead (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

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									0.0002 (J)
9/1/2016							0.0005 (J)	0.0008 (J)	
9/2/2016	<0.001	0.0002 (J)	<0.001						
9/7/2016						0.0002 (J)			
12/6/2016									0.0004 (J)
12/7/2016	<0.001								
12/8/2016		<0.001	<0.001			0.0002 (J)	<0.001	0.0019 (J)	
3/28/2017					0.0002 (J)				<0.001
3/29/2017	<0.001		<0.001						
3/30/2017		0.0004 (J)		<0.001				0.0035 (J)	
3/31/2017						0.0004 (J)	0.0009 (J)		
5/12/2017				<0.001	<0.001				
6/15/2017				<0.001	<0.001				
7/11/2017					<0.001				<0.001
7/12/2017	<0.001	0.0001 (J)		<0.001					
7/13/2017			<0.001			0.0004 (J)	0.0007 (J)	0.002 (J)	
10/24/2017					<0.001				
10/25/2017	<0.001	<0.001	<0.001			0.0002 (J)			0.0024 (J)
10/26/2017				<0.001			0.0009 (J)	0.0022 (J)	
2/27/2018					<0.001				<0.001
2/28/2018	<0.001	<0.001	<0.001			<0.001			
3/1/2018				<0.001			<0.001		
3/2/2018								<0.001	
7/11/2018	<0.001	<0.001				0.00052 (J)			
7/12/2018			<0.001	<0.001			0.001 (J)	0.0014 (J)	
11/6/2018					<0.001				<0.001
11/7/2018	<0.001	<0.001	<0.001			<0.005 (J)	<0.005 (J)	<0.005 (J)	
11/8/2018				<0.001					
8/27/2019					4.9E-05 (J)				5.1E-05 (J)
8/28/2019						0.00036 (J)			
8/29/2019	0.00015 (J)	0.00023 (J)	<0.001	6.6E-05 (J)			0.0006 (J)	0.001 (J)	
10/15/2019					0.0001 (J)				
10/16/2019									8.5E-05 (J)
10/17/2019	9.7E-05 (J)	4.6E-05 (J)				0.00026 (J)	0.0011 (J)		
10/18/2019			<0.001	<0.001				0.00095 (J)	
3/2/2020					<0.001				5.1E-05 (J)
3/3/2020		0.00015 (J)	<0.001						
3/4/2020	0.00068 (J)			<0.001		0.0001 (J)	0.00088 (J)	0.0012 (J)	
8/11/2020									
8/12/2020					<0.001		0.0004 (J)		6.3E-05 (J)
8/13/2020	0.00044 (J)			<0.001		0.0016 (J)		0.00092 (J)	
8/14/2020		<0.001	<0.001						
9/22/2020	0.00013 (J)				<0.001	0.00074 (J)			4.8E-05 (J)
9/23/2020							0.00053 (J)	0.001 (J)	
9/24/2020		0.00014 (J)	<0.001	<0.001					
3/1/2021					0.00012 (J)				
3/2/2021	0.00047 (J)								8E-05 (J)
3/3/2021		<0.001	<0.001	<0.001		0.00024 (J)	0.0007 (J)	0.0011	
9/9/2021		<0.001	<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			

# Time Series

Constituent: Lead (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
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
1/20/2022									
1/21/2022	<0.001	<0.001	<0.001	<0.001		<0.001			
1/24/2022					<0.001		<0.001	0.0011	<0.001
1/25/2022									
1/26/2022									
9/13/2022						<0.001	<0.001	0.00093 (J)	
9/14/2022									<0.001
9/15/2022	<0.001	<0.001							
9/16/2022			<0.001						
9/19/2022					<0.001				
9/20/2022				<0.001					



# Time Series

Constituent: Lead (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9
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		
9/22/2020		0.00015 (J)
9/23/2020	0.00011 (J)	
9/24/2020		
3/1/2021		
3/2/2021	0.00027 (J)	0.00028 (J)
3/3/2021		
9/9/2021		
9/10/2021		<0.001
9/13/2021	<0.001	

# Time Series

Constituent: Lead (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-8	DGWC-9
1/20/2022		
1/21/2022		
1/24/2022		
1/25/2022	<0.001	
1/26/2022		<0.001
9/13/2022		
9/14/2022		
9/15/2022	<0.001	
9/16/2022		
9/19/2022		<0.001
9/20/2022		

# Time Series

Constituent: Lithium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D
8/17/2020	0.0013 (J)								
9/25/2020	0.0027 (J)								
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)	
3/4/2021			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	0.0024 (J)							0.014 (J)	
4/14/2021									
4/15/2021									
9/10/2021			0.012 (J)					0.013 (J)	
9/13/2021	0.0022 (J)	0.011 (J)			0.0056 (J)	0.014 (J)			
9/14/2021				0.036			0.015 (J)		0.029 (J)
1/20/2022								0.014 (J)	
1/21/2022	0.0021 (J)								
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)						
6/6/2022									
9/8/2022	0.0023 (J)								
9/13/2022				0.04					
9/14/2022						0.015 (J)			0.02 (J)
9/15/2022			0.013 (J)				0.016 (J)		
9/16/2022		0.011 (J)			0.0054 (J)				
9/19/2022									
9/20/2022								0.013 (J)	

# Time Series

Constituent: Lithium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-115D	B-120D	B-122D
8/17/2020			
9/25/2020			
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/4/2021			
3/5/2021			
3/8/2021			
4/14/2021	0.089		
4/15/2021		0.088	
9/10/2021			
9/13/2021			
9/14/2021	0.085	0.077	
1/20/2022	0.081	0.079	
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022			
6/6/2022			0.013 (J)
9/8/2022			
9/13/2022			
9/14/2022	0.082		
9/15/2022			
9/16/2022			
9/19/2022		0.076	
9/20/2022			

# Time Series

Constituent: Lithium (mg/L)    Analysis Run 11/17/2022 3:09 PM    View: Constituents View  
 Plant McDonough    Client: Southern Company    Data: McDonough AP

	B-56	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92
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	0.0056 (J)					0.0016 (J)		0.006 (J)	
8/19/2020									
9/24/2020		0.0084 (J)			0.00095 (J)				
9/25/2020							0.0018 (J)	0.0016 (J)	
9/28/2020	0.005 (J)					0.001 (J)			
3/3/2021	0.0051 (J)								
3/4/2021					0.0011 (J)		0.0024 (J)		
3/5/2021								0.029 (J)	
3/9/2021									
3/12/2021		0.0087 (J)	0.0066 (J)						
9/9/2021		0.0094 (J)							
9/13/2021	0.0055 (J)							0.0017 (J)	
9/14/2021			0.0064 (J)	<0.03	<0.03	0.001 (J)			
9/15/2021									0.012 (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)			
1/26/2022									0.015 (J)
1/27/2022	0.0061 (J)							0.0066 (J)	
9/8/2022		0.0085 (J)							
9/12/2022									0.015 (J)
9/13/2022					0.0021 (JD)		0.0027 (J)		
9/14/2022			0.0072 (JD)						
9/16/2022	0.0057 (J)			<0.03		0.00078 (J)		0.0021 (J)	

# Time Series

Constituent: Lithium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-93	B-97	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	0.011 (J)		
9/24/2020			
9/25/2020			
9/28/2020	0.011 (J)		
3/3/2021			
3/4/2021			
3/5/2021			
3/9/2021	0.012 (J)		
3/12/2021			
9/9/2021			
9/13/2021			
9/14/2021			
9/15/2021	0.011 (J)	0.0042 (J)	0.0012 (J)
9/16/2021			
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	0.013 (J)	0.0047 (J)	0.0013 (J)
1/27/2022			
9/8/2022			
9/12/2022	0.013 (J)		
9/13/2022		0.0052 (J)	0.0011 (J)
9/14/2022			
9/16/2022			

# Time Series

Constituent: Lithium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

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 11/17/2022 3:09 PM View: Constituents View  
 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 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

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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		
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			
9/7/2022			
9/8/2022			
9/13/2022			
9/14/2022	<0.03	0.0032 (J)	
9/15/2022			
9/20/2022			0.021 (J)

# Time Series

Constituent: Lithium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

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									0.0026 (J)
9/1/2016							0.0854	0.125	
9/2/2016	0.0021 (J)	0.0057 (J)	0.0046 (J)						
9/7/2016						0.012 (J)			
12/6/2016									0.0046 (J)
12/7/2016	0.005 (J)								
12/8/2016		0.0054 (J)	0.0047 (J)			0.0118 (J)	0.0667	0.122	
3/28/2017					0.0031 (J)				0.0028 (J)
3/29/2017	0.0021 (J)		0.0043 (J)						
3/30/2017		0.0065 (J)		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	0.0019 (J)	0.0057 (J)		0.0068 (J)					
7/13/2017			0.0044 (J)			0.0116 (J)	0.0743	0.143	
10/24/2017					0.0024 (J)				
10/25/2017	0.0022 (J)	0.006 (J)	0.0042 (J)			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	0.0019 (J)	0.0061 (J)	0.0043 (J)			0.0122 (J)			
3/1/2018				0.0759			0.0772		
3/2/2018								0.129	
7/11/2018	0.0022 (J)	0.0057 (J)				0.01 (J)			
7/12/2018			0.0036 (J)	0.0047 (J)			0.073	0.12	
11/6/2018					<0.03				<0.03
11/7/2018	<0.03	<0.03	<0.03			<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	0.0093 (J)	0.0061 (J)	0.0035 (J)	0.0017 (J)			0.056	0.11	
10/15/2019					0.0029 (J)				
10/16/2019									0.006 (J)
10/17/2019	0.0075 (J)	0.0063 (J)				0.011 (J)	0.066		
10/18/2019			0.0041 (J)	0.0039 (J)				0.11	
3/2/2020					0.0035 (J)				0.0079 (J)
3/3/2020		0.0065 (J)	0.0046 (J)						
3/4/2020	0.019 (J)			0.004 (J)		0.0091 (J)	0.063	0.12	
8/11/2020									
8/12/2020					0.0031 (J)		0.054		0.0067 (J)
8/13/2020	0.012 (J)			0.0052 (J)		0.011 (J)		0.098	
8/14/2020		0.0058 (J)	0.0039 (J)						
9/22/2020	0.0026 (J)				0.0026 (J)	0.0099 (J)			0.0065 (J)
9/23/2020							0.046	0.1	
9/24/2020		0.0062 (J)	0.0037 (J)	0.0045 (J)					
3/1/2021					0.0035 (J)				
3/2/2021	0.011 (J)								0.0064 (J)
3/3/2021		0.0054 (J)	0.0038 (J)	0.014 (J)		0.0079 (J)	0.049	0.096	
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)			

# Time Series

Constituent: Lithium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
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
1/20/2022									
1/21/2022	0.012 (J)	0.0058 (J)	0.0032 (J)	0.0029 (J)		0.0069 (J)			
1/24/2022					0.0038 (J)		0.055	0.11	0.0068 (J)
1/25/2022									
1/26/2022									
9/13/2022						0.0091 (J)	0.05	0.099	
9/14/2022									0.0081 (J)
9/15/2022	0.0096 (J)	0.0069 (J)							
9/16/2022			0.0033 (J)						
9/19/2022					0.0037 (J)				
9/20/2022				0.0051 (J)					

# Time Series

Constituent: Lithium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9
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		
9/22/2020		0.025 (J)
9/23/2020	0.0045 (J)	
9/24/2020		
3/1/2021		
3/2/2021	0.0046 (J)	0.028 (J)
3/3/2021		
9/9/2021		
9/10/2021		0.027 (J)
9/13/2021	0.0034 (J)	

# Time Series

Constituent: Lithium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-8	DGWC-9
1/20/2022		
1/21/2022		
1/24/2022		
1/25/2022	0.0032 (J)	
1/26/2022		0.029 (J)
9/13/2022		
9/14/2022		
9/15/2022	0.0039 (J)	
9/16/2022		
9/19/2022		0.023 (J)
9/20/2022		

# Time Series

Constituent: Mercury (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D
8/17/2020	0.00011 (J)								
9/25/2020	<0.0002								
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	
3/4/2021			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
3/5/2021		0.00014 (J)							<0.0002
3/8/2021								<0.0002	
4/14/2021									
4/15/2021									
9/10/2021			<0.0002					<0.0002	
9/13/2021	<0.0002	<0.0002			<0.0002	<0.0002			
9/14/2021				<0.0002			<0.0002		<0.0002
1/20/2022								<0.0002	
1/21/2022	<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						
6/6/2022									
9/8/2022	<0.0002								
9/13/2022				<0.0002					
9/14/2022						<0.0002			<0.0002
9/15/2022			<0.0002				<0.0002		
9/16/2022		<0.0002			<0.0002				
9/19/2022									
9/20/2022								<0.0002	

# Time Series

Constituent: Mercury (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-115D	B-120D	B-122D
8/17/2020			
9/25/2020			
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/4/2021			
3/5/2021			
3/8/2021			
4/14/2021	<0.0002		
4/15/2021		<0.0002	
9/10/2021			
9/13/2021			
9/14/2021	<0.0002	<0.0002	
1/20/2022	<0.0002	<0.0002	
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022			
6/6/2022			<0.0002
9/8/2022			
9/13/2022			
9/14/2022	<0.0002		
9/15/2022			
9/16/2022			
9/19/2022		<0.0002	
9/20/2022			



# Time Series

Constituent: Mercury (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-56	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92
1/28/2019			<0.0002						
1/30/2019		<0.0002		<0.0002					
9/11/2019		<0.0002	<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	<0.0002		
10/22/2019			<0.0002						
10/24/2019					<0.0002				
8/13/2020		<0.0002			<0.0002				
8/14/2020							<0.0002		
8/17/2020	0.00016 (J)					0.00011 (J)		0.00011 (J)	
8/19/2020									
9/24/2020		<0.0002			<0.0002				
9/25/2020							<0.0002	<0.0002	
9/28/2020	<0.0002					<0.0002			
3/3/2021	<0.0002								
3/4/2021					<0.0002		<0.0002		
3/5/2021								0.0001 (J)	
3/9/2021									
3/12/2021		<0.0002							
9/9/2021		<0.0002							
9/13/2021	<0.0002							<0.0002	
9/14/2021			<0.0002	<0.0002	<0.0002	<0.0002			
9/15/2021									0.00017 (J)
9/16/2021							<0.0002		
1/20/2022		<0.0002	<0.0002		<0.0002		<0.0002		
1/21/2022							<0.0002		
1/25/2022				<0.0002		<0.0002			
1/26/2022									<0.0002
1/27/2022	<0.0002							<0.0002	
9/8/2022		<0.0002							
9/12/2022									0.00015 (J)
9/13/2022					<0.0002		<0.0002		
9/14/2022			<0.0002						
9/16/2022	<0.0002			<0.0002		<0.0002		<0.0002	

# Time Series

Constituent: Mercury (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-93	B-97	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	0.00026		
9/24/2020			
9/25/2020			
9/28/2020	0.00024 (J)		
3/3/2021			
3/4/2021			
3/5/2021			
3/9/2021	0.00015 (J)		
3/12/2021			
9/9/2021			
9/13/2021			
9/14/2021			
9/15/2021	9.8E-05 (J)	<0.0002	<0.0002
9/16/2021			
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	<0.0002	<0.0002	<0.0002
1/27/2022			
9/8/2022			
9/12/2022	0.00016 (J)		
9/13/2022		<0.0002	<0.0002
9/14/2022			
9/16/2022			

# Time Series

Constituent: Mercury (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

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	<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 11/17/2022 3:09 PM View: Constituents View  
 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 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

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	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			
9/7/2022			
9/8/2022			
9/13/2022			
9/14/2022	<0.0002	<0.0002	
9/15/2022			
9/20/2022			<0.0002

# Time Series

Constituent: Mercury (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
 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						
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)					
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)					
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 11/17/2022 3:09 PM View: Constituents View  
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
1/20/2022									
1/21/2022	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002			
1/24/2022					0.00022		<0.0002	<0.0002	0.00028
1/25/2022									
1/26/2022									
9/13/2022						<0.0002	<0.0002	<0.0002	
9/14/2022									0.00022
9/15/2022	<0.0002	<0.0002							
9/16/2022			<0.0002						
9/19/2022					<0.0002				
9/20/2022				<0.0002					



# Time Series

Constituent: Mercury (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9
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		
9/22/2020		0.00013 (J)
9/23/2020	<0.0002	
9/24/2020		
3/1/2021		
3/2/2021	<0.0002	0.00017 (J)
3/3/2021		
9/9/2021		
9/10/2021		0.00014 (J)
9/13/2021	<0.0002	

# Time Series

Constituent: Mercury (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-8	DGWC-9
1/20/2022		
1/21/2022		
1/24/2022		
1/25/2022	<0.0002	
1/26/2022		0.00014 (J)
9/13/2022		
9/14/2022		
9/15/2022	<0.0002	
9/16/2022		
9/19/2022		0.0002
9/20/2022		

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D
8/17/2020	<0.01								
9/25/2020	<0.01								
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)	
3/4/2021			<0.01	<0.01	<0.01	<0.01	<0.01		
3/5/2021		<0.01							0.0067 (J)
3/8/2021	<0.01							0.0014 (J)	
4/14/2021									
4/15/2021									
9/10/2021			<0.01					0.0011 (J)	
9/13/2021	<0.01	<0.01			<0.01	<0.01			
9/14/2021				<0.01			<0.01		0.013
1/20/2022								0.0012 (J)	
1/21/2022	<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						
6/6/2022									
9/8/2022	<0.01								
9/13/2022				<0.01					
9/14/2022						<0.01			0.0069 (J)
9/15/2022			0.0015 (J)				<0.01		
9/16/2022		<0.01			<0.01				
9/19/2022									
9/20/2022								0.0014 (J)	

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-115D	B-120D	B-122D
8/17/2020			
9/25/2020			
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/4/2021			
3/5/2021			
3/8/2021			
4/14/2021	<0.01		
4/15/2021		0.00089 (J)	
9/10/2021			
9/13/2021			
9/14/2021	<0.01	<0.01	
1/20/2022	<0.01	<0.01	
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022			
6/6/2022			<0.01
9/8/2022			
9/13/2022			
9/14/2022	<0.01		
9/15/2022			
9/16/2022			
9/19/2022		<0.01	
9/20/2022			

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-56	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92
1/28/2019			<0.01						
1/30/2019		<0.01		<0.01					
9/11/2019		<0.01	<0.01						
9/12/2019				0.0018 (J)					
9/18/2019					<0.01				
9/23/2019						<0.01			
10/21/2019		<0.01		0.0015 (J)		<0.01	<0.01		
10/22/2019			<0.01						
10/24/2019					<0.01				
8/13/2020		<0.01			<0.01				
8/14/2020							<0.01		
8/17/2020	<0.01					<0.01		0.0012 (J)	
8/19/2020									
9/24/2020		<0.01			<0.01				
9/25/2020							<0.01	0.0012 (J)	
9/28/2020	<0.01					<0.01			
3/3/2021	<0.01								
3/4/2021					<0.01		<0.01		
3/5/2021								<0.01	
3/9/2021									
3/12/2021		<0.01							
9/9/2021		<0.01							
9/13/2021	<0.01							<0.01	
9/14/2021			<0.01	<0.01	<0.01	<0.01			
9/15/2021									<0.01
9/16/2021							<0.01		
1/20/2022		<0.01	<0.01		<0.01		<0.01		
1/21/2022							<0.01		
1/25/2022				<0.01		<0.01			
1/26/2022									<0.01
1/27/2022	<0.01							<0.01	
9/8/2022		<0.01							
9/12/2022									<0.01
9/13/2022					<0.01		<0.01		
9/14/2022			<0.01						
9/16/2022	<0.01			<0.01		<0.01		<0.01	

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-93	B-97	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	<0.01		
9/24/2020			
9/25/2020			
9/28/2020	<0.01		
3/3/2021			
3/4/2021			
3/5/2021			
3/9/2021	<0.01		
3/12/2021			
9/9/2021			
9/13/2021			
9/14/2021			
9/15/2021	<0.01	<0.01	<0.01
9/16/2021			
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	<0.01	<0.01	0.0015 (J)
1/27/2022			
9/8/2022			
9/12/2022	<0.01		
9/13/2022		<0.01	0.00084 (J)
9/14/2022			
9/16/2022			

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

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 11/17/2022 3:09 PM View: Constituents View  
 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 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

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	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			
9/7/2022			
9/8/2022			
9/13/2022			
9/14/2022	<0.01	<0.01	
9/15/2022			
9/20/2022			0.0021 (J)

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

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									<0.01
9/1/2016							<0.01	<0.01	
9/2/2016	<0.01	<0.01	<0.01						
9/7/2016						<0.01			
12/6/2016									<0.01
12/7/2016	<0.01								
12/8/2016		<0.01	<0.01			<0.01	<0.01	<0.01	
3/28/2017					0.008 (J)				<0.01
3/29/2017	<0.01		<0.01						
3/30/2017		<0.01		0.0084 (J)				<0.01	
3/31/2017						<0.01	<0.01		
5/12/2017				0.0085 (J)	0.0062 (J)				
6/15/2017				0.0104	0.0044 (J)				
7/11/2017					0.0041 (J)				<0.01
7/12/2017	<0.01	<0.01		0.0092 (J)					
7/13/2017			<0.01			<0.01	<0.01	<0.01	
10/24/2017					0.0072 (J)				
10/25/2017	<0.01	<0.01	<0.01			<0.01			<0.01
10/26/2017				0.0077 (J)			<0.01	<0.01	
2/27/2018					0.0069 (J)				<0.01
2/28/2018	<0.01	<0.01	<0.01			<0.01			
3/1/2018				0.0045 (J)			<0.01		
3/2/2018								<0.01	
7/11/2018	<0.01	<0.01				<0.01			
7/12/2018			<0.01	0.012			<0.01	<0.01	
11/6/2018					<0.01 (J)				<0.01
11/7/2018	<0.01	<0.01	<0.01			<0.01	<0.01	<0.01	
11/8/2018				0.012					
8/27/2019					0.0065 (J)				<0.01
8/28/2019						<0.01			
8/29/2019	<0.01	<0.01	<0.01	0.014			<0.01	<0.01	
10/15/2019					0.0061 (J)				
10/16/2019									<0.01
10/17/2019	<0.01	<0.01				<0.01	<0.01		
10/18/2019			<0.01	0.0091 (J)				<0.01	
3/2/2020					0.0059 (J)				<0.01
3/3/2020		<0.01	<0.01						
3/4/2020	<0.01			0.0047 (J)		<0.01	<0.01	<0.01	
8/11/2020									
8/12/2020					0.0057 (J)		<0.01		<0.01
8/13/2020	<0.01			0.013		<0.01		<0.01	
8/14/2020		<0.01	<0.01						
9/22/2020	<0.01				0.0028 (J)	<0.01			<0.01
9/23/2020							<0.01	<0.01	
9/24/2020		<0.01	<0.01	0.0088 (J)					
3/1/2021					0.0051 (J)				
3/2/2021	<0.01								<0.01
3/3/2021		<0.01	<0.01	0.0026 (J)		<0.01	<0.01	<0.01	
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 11/17/2022 3:09 PM View: Constituents View  
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
1/20/2022									
1/21/2022	<0.01	<0.01	<0.01	0.0073 (J)		<0.01			
1/24/2022					0.0045 (J)		<0.01	<0.01	<0.01
1/25/2022									
1/26/2022									
9/13/2022						<0.01	<0.01	<0.01	
9/14/2022									<0.01
9/15/2022	<0.01	<0.01							
9/16/2022			<0.01						
9/19/2022					0.0037 (J)				
9/20/2022				0.0095 (J)					

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9
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		
9/22/2020		<0.01
9/23/2020	<0.01	
9/24/2020		
3/1/2021		
3/2/2021	<0.01	<0.01
3/3/2021		
9/9/2021		
9/10/2021		<0.01
9/13/2021	<0.01	

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-8	DGWC-9
1/20/2022		
1/21/2022		
1/24/2022		
1/25/2022	<0.01	
1/26/2022		<0.01
9/13/2022		
9/14/2022		
9/15/2022	<0.01	
9/16/2022		
9/19/2022		<0.01
9/20/2022		



# Time Series

Constituent: pH, Field (SU) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-115D	B-120D	B-122D
8/3/2020			
8/17/2020			
9/25/2020			
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/4/2021			
3/5/2021			
3/8/2021			
4/14/2021	4.8		
4/15/2021		5.46	
9/10/2021			
9/13/2021			
9/14/2021	5.38	5.3	
1/20/2022	5.77	5.28	
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022			
6/6/2022			6.02
9/8/2022			
9/13/2022			
9/14/2022	5.76		6.07
9/15/2022			
9/16/2022			
9/19/2022		5.21	
9/20/2022			



# Time Series

Constituent: pH, Field (SU) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-56	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92
1/28/2019			5.39						
1/30/2019				6.83					
9/11/2019		6.27	5.48						
9/12/2019				6.87					
9/18/2019					6.14				
9/23/2019						5.21			
10/21/2019		6.24		6.74		5.34	5.54		
10/22/2019			5.55						
10/24/2019					6.26				
8/13/2020		6.4			6.14				
8/14/2020							5.59		
8/17/2020	4.82					5.48		5.76	
8/19/2020									
9/24/2020		6.55			6.46				
9/25/2020							5.97	5.75	
9/28/2020	4.9					5.84			
3/3/2021	4.71								
3/4/2021					6.33		5.6		
3/5/2021								5.21	
3/9/2021									4.62
3/12/2021		6.34	5.51	6.53		5.29			
3/15/2021									
9/9/2021		6.31							
9/13/2021	4.69							5.68	
9/14/2021			5.46	5.54	6.42	5.15			
9/15/2021									4.55
9/16/2021							5.58		
1/20/2022		6.32	5.46		6.48				
1/21/2022							5.56		
1/25/2022				6.35		5.07			
1/26/2022									4.5
1/27/2022	4.7							5.5	
9/8/2022		6.22							
9/9/2022		6.22 (D)							
9/12/2022									4.56
9/13/2022					6.34		5.6		
9/14/2022			5.31						
9/16/2022	4.56			6.6		5.02 (D)		5.47	

# Time Series

Constituent: pH, Field (SU) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-93	B-97	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	4.78		
9/24/2020			
9/25/2020			
9/28/2020	4.67		
3/3/2021			
3/4/2021			
3/5/2021			
3/9/2021	4.73	5.55	
3/12/2021			
3/15/2021			6.3
9/9/2021			
9/13/2021			
9/14/2021			
9/15/2021	4.6	5.49	5.4
9/16/2021			
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	4.74	6.52	6.52
1/27/2022			
9/8/2022			
9/9/2022			
9/12/2022	4.7		
9/13/2022		5.54	6.18
9/14/2022			
9/16/2022			

# Time Series

Constituent: pH, Field (SU) Analysis Run 11/17/2022 3:09 PM View: Constituents View

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 11/17/2022 3:09 PM View: Constituents View  
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 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

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	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			
9/7/2022			
9/8/2022			
9/13/2022			
9/14/2022	5.08	4.81	
9/15/2022			
9/20/2022			5.98



# Time Series

Constituent: pH, Field (SU) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
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		5.63	5.71	5.85		5.3	3.98	4.14	
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			
1/20/2022		5.73	5.72	5.95		5.27			
1/21/2022	4.47						3.72		
1/24/2022					5.79			4.03	4.79
1/25/2022									
1/26/2022									
9/13/2022						5.04	4.15	4.25	
9/14/2022									4.75
9/15/2022	4.58	5.69							
9/16/2022			5.62						
9/19/2022					5.76				
9/20/2022				6					



# Time Series

Constituent: pH, Field (SU) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9
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		
8/11/2020		4
8/12/2020	5.36	
8/13/2020		
8/14/2020		
9/22/2020		4
9/23/2020	5.21	
9/24/2020		
3/1/2021		
3/2/2021	6.6	3.99

# Time Series

Constituent: pH, Field (SU) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-8	DGWC-9
3/3/2021		
9/9/2021		
9/10/2021		3.98
9/13/2021	5.05	
1/20/2022		
1/21/2022		
1/24/2022		
1/25/2022	5.16	
1/26/2022		3.68
9/13/2022		
9/14/2022		
9/15/2022	5.2	
9/16/2022		
9/19/2022		3.98
9/20/2022		

# Time Series

Constituent: Selenium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D
8/17/2020	<0.005								
9/25/2020	<0.005								
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	
3/4/2021			<0.005	0.0031 (J)	<0.005	<0.005	0.0016 (J)		
3/5/2021		0.0031 (J)							0.0022 (J)
3/8/2021	0.0019 (J)							<0.005	
4/14/2021									
4/15/2021									
9/10/2021			<0.005					<0.005	
9/13/2021	<0.005	<0.005			<0.005	<0.005			
9/14/2021				<0.005			<0.005		<0.005
1/20/2022								<0.005	
1/21/2022	<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						
6/6/2022									
9/8/2022	<0.005								
9/13/2022				<0.005					
9/14/2022						<0.005			<0.005
9/15/2022			<0.005				<0.005		
9/16/2022		<0.005			<0.005				
9/19/2022									
9/20/2022								<0.005	

# Time Series

Constituent: Selenium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-115D	B-120D	B-122D
8/17/2020			
9/25/2020			
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/4/2021			
3/5/2021			
3/8/2021			
4/14/2021	0.006		
4/15/2021		0.0016 (J)	
9/10/2021			
9/13/2021			
9/14/2021	0.0041 (J)	0.0022 (J)	
1/20/2022	0.0022 (J)	0.0021 (J)	
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022			
6/6/2022			<0.005
9/8/2022			
9/13/2022			
9/14/2022	0.0045 (J)		
9/15/2022			
9/16/2022			
9/19/2022		0.0038 (J)	
9/20/2022			

# Time Series

Constituent: Selenium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-56	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92
2/19/2018				<0.005					
1/28/2019			<0.005						
1/30/2019		<0.005		<0.005					
9/11/2019		<0.005	<0.005						
9/12/2019				<0.005					
9/18/2019					<0.005				
9/23/2019						<0.005			
10/21/2019		<0.005		<0.005		0.0016 (J)	0.0082 (J)		
10/22/2019			<0.005						
10/24/2019					<0.005				
8/13/2020		<0.005			<0.005				
8/14/2020							0.015		
8/17/2020	0.011					<0.005		0.0017 (J)	
8/19/2020									
9/24/2020		<0.005			<0.005				
9/25/2020							0.019	0.0033 (J)	
9/28/2020	0.029					0.0021 (J)			
3/3/2021	0.013								
3/4/2021					0.0017 (J)		0.024		
3/5/2021								0.0033 (J)	
3/9/2021									
3/12/2021		<0.005							
9/9/2021		<0.005							
9/13/2021	0.011							0.0021 (J)	
9/14/2021			<0.005	<0.005	<0.005	<0.005			
9/15/2021									0.0067
9/16/2021							0.025		
1/20/2022		<0.005	<0.005		<0.005				
1/21/2022							0.027		
1/25/2022				<0.005		0.002 (J)			
1/26/2022									0.0039 (J)
1/27/2022	0.0066							<0.005	
9/8/2022		<0.005							
9/12/2022									0.012
9/13/2022					<0.005		0.024		
9/14/2022			<0.005						
9/16/2022	0.01			<0.005		<0.005		0.002 (J)	

# Time Series

Constituent: Selenium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-93	B-97	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	0.018		
9/24/2020			
9/25/2020			
9/28/2020	0.036		
3/3/2021			
3/4/2021			
3/5/2021			
3/9/2021	0.0099 (J)		
3/12/2021			
9/9/2021			
9/13/2021			
9/14/2021			
9/15/2021	0.0076	0.0024 (J)	0.0033 (J)
9/16/2021			
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	0.0063	0.0015 (J)	<0.005
1/27/2022			
9/8/2022			
9/12/2022	0.013		
9/13/2022		0.0032 (J)	<0.005
9/14/2022			
9/16/2022			

# Time Series

Constituent: Selenium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

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 11/17/2022 3:09 PM View: Constituents View  
 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 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

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	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			
9/7/2022			
9/8/2022			
9/13/2022			
9/14/2022	0.0064	0.0073	
9/15/2022			
9/20/2022			0.0018 (J)

# Time Series

Constituent: Selenium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
 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									0.0182
9/1/2016							0.0217	0.0084 (J)	
9/2/2016	0.0671	<0.005	<0.005						
9/7/2016						<0.005			
12/6/2016									0.012
12/7/2016	0.0056 (J)								
12/8/2016		<0.005	<0.005			<0.005	0.017	0.0084 (J)	
3/28/2017					<0.005				0.168
3/29/2017	0.0521		<0.005						
3/30/2017		<0.005		<0.005				0.0079 (J)	
3/31/2017						<0.005	0.0133		
5/12/2017				<0.005	<0.005				
6/15/2017				<0.005	<0.005				
7/11/2017					<0.005				0.0607
7/12/2017	0.0483	<0.005		<0.005					
7/13/2017			<0.005			<0.005	0.0068 (J)	0.0062 (J)	
10/24/2017					<0.005				
10/25/2017	0.0506	<0.005	<0.005			<0.005			0.034
10/26/2017				<0.005			0.0097 (J)	0.0058 (J)	
2/27/2018					<0.005				0.0348
2/28/2018	0.0755	<0.005	<0.005			<0.005			
3/1/2018				<0.005			0.0124		
3/2/2018								<0.005	
7/11/2018	0.022	<0.005				<0.005			
7/12/2018			0.0017 (J)	<0.005			0.015	0.013	
11/6/2018					<0.005				<0.01 (J)
11/7/2018	0.044	<0.005	<0.005			<0.005	<0.01 (J)	<0.01 (J)	
11/8/2018				<0.005					
8/27/2019					<0.005				0.0031 (J)
8/28/2019						<0.005			
8/29/2019	0.029	<0.005	<0.005	<0.005			0.004 (J)	0.0023 (J)	
10/15/2019					0.0014 (J)				
10/16/2019									0.015
10/17/2019	0.071	<0.005				<0.005	0.0062 (J)		
10/18/2019			<0.005	<0.005				0.005 (J)	
3/2/2020					<0.005				0.032
3/3/2020		<0.005	<0.005						
3/4/2020	0.071			<0.005		<0.005	0.0065 (J)	0.0061 (J)	
8/11/2020									
8/12/2020					<0.005		0.002 (J)		0.011
8/13/2020	0.091			<0.005		<0.005		0.0029 (J)	
8/14/2020		<0.005	<0.005						
9/22/2020	0.023				<0.005	<0.005			0.04
9/23/2020							<0.005	0.0016 (J)	
9/24/2020		<0.005	<0.005	<0.005					
3/1/2021					<0.005				
3/2/2021	0.078								0.0081
3/3/2021		<0.005	<0.005	<0.005		<0.005	0.0039 (J)	0.0025 (J)	
9/9/2021		<0.005	<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 11/17/2022 3:09 PM View: Constituents View  
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
1/20/2022		<0.005	<0.005	<0.005		<0.005			
1/21/2022	0.041						0.0016 (J)		
1/24/2022					<0.005			<0.005	0.0048 (J)
1/25/2022									
1/26/2022									
9/13/2022						<0.005	0.0031 (J)	0.0019 (J)	
9/14/2022									0.019
9/15/2022	0.062	<0.005							
9/16/2022			<0.005						
9/19/2022					<0.005				
9/20/2022				<0.005					

# Time Series

Constituent: Selenium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9
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		
9/22/2020		0.23
9/23/2020	0.0028 (J)	
9/24/2020		
3/1/2021		
3/2/2021	<0.005	0.07
3/3/2021		
9/9/2021		
9/10/2021		0.057
9/13/2021	<0.005	

# Time Series

Constituent: Selenium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-8	DGWC-9
1/20/2022		
1/21/2022		
1/24/2022		
1/25/2022	<0.005	
1/26/2022		0.025
9/13/2022		
9/14/2022		
9/15/2022	<0.005	
9/16/2022		
9/19/2022		0.048
9/20/2022		



# Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-115D	B-120D	B-122D
9/25/2020			
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/4/2021			
3/5/2021			
3/8/2021			
4/14/2021	256		
4/15/2021		556	
9/10/2021			
9/13/2021			
9/14/2021	278	552	
1/20/2022	293	475	
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022			
6/6/2022			97.7
9/8/2022			
9/13/2022			
9/14/2022	297		
9/15/2022			
9/16/2022			
9/19/2022		489	
9/20/2022			



# Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-56	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92
1/28/2019			87.9						
1/30/2019		74.7		292					
10/21/2019		55.3		302		334	103		
10/22/2019			56.5						
10/24/2019					8.6				
11/22/2019								619	
12/18/2019									481
12/19/2019									
2/17/2020									
9/24/2020		50.6			2.9				
9/25/2020							107	344	
9/28/2020	211					287			
3/3/2021	225								
3/4/2021					4.9		113		
3/5/2021								497	
3/9/2021									
3/12/2021		46.5							
9/9/2021		49.2							
9/13/2021	189							321	
9/14/2021			73.2	268	2.5	326			
9/15/2021									384
9/16/2021							106		
1/20/2022		50.3	49.4		<1				
1/21/2022							106		
1/25/2022				240		363			
1/26/2022									305
1/27/2022	185							371	
9/8/2022		45.8							
9/12/2022									394
9/13/2022					10		109		
9/14/2022			93.3						
9/16/2022	234			285		404		433	

# Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-93	B-97	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	533		
2/17/2020		242	150
9/24/2020			
9/25/2020			
9/28/2020	419		
3/3/2021			
3/4/2021			
3/5/2021			
3/9/2021	488		
3/12/2021			
9/9/2021			
9/13/2021			
9/14/2021			
9/15/2021	478	551	325
9/16/2021			
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	477	531	18.4
1/27/2022			
9/8/2022			
9/12/2022	508		
9/13/2022		677	92.1
9/14/2022			
9/16/2022			

# Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

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 (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
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 (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-17	DGWC-19	DGWC-2
1/20/2022			101
1/24/2022	225		
1/25/2022		288	
1/26/2022			
1/28/2022			
9/7/2022			
9/8/2022			
9/13/2022			
9/14/2022	268	388	
9/15/2022			
9/20/2022			98.4

# Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
 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					
3/1/2021					840				
3/2/2021	458								412
3/3/2021		264	252	221		329	143	312	
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			
1/21/2022	406						135		
1/24/2022					816			265	434

# Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
1/25/2022									
1/26/2022									
9/13/2022						326	150	309	
9/14/2022									505
9/15/2022	462	268							
9/16/2022			265						
9/19/2022					925				
9/20/2022				242					



# Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9
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		
3/1/2021		
3/2/2021	152	266
3/3/2021		
9/9/2021		
9/10/2021		264
9/13/2021	145	
1/20/2022		
1/21/2022		
1/24/2022		

# Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-8	DGWC-9
1/25/2022	134	
1/26/2022		245
9/13/2022		
9/14/2022		
9/15/2022	134	
9/16/2022		
9/19/2022		274
9/20/2022		



# Time Series

Constituent: Thallium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-115D	B-120D	B-122D
8/17/2020			
9/25/2020			
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/4/2021			
3/5/2021			
3/8/2021			
4/14/2021	<0.001		
4/15/2021		<0.001	
9/10/2021			
9/13/2021			
9/14/2021	<0.001	<0.001	
1/20/2022	<0.001	<0.001	
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022			
6/6/2022			<0.001
9/8/2022			
9/13/2022			
9/14/2022	<0.001		
9/15/2022			
9/16/2022			
9/19/2022		<0.001	
9/20/2022			

# Time Series

Constituent: Thallium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-56	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92
1/28/2019			<0.001						
1/30/2019		<0.001		<0.001					
9/11/2019		<0.001	<0.001						
9/12/2019				<0.001					
9/18/2019					<0.001				
9/23/2019						9.9E-05 (J)			
10/21/2019		<0.001		<0.001		0.00011 (J)	7.2E-05 (J)		
10/22/2019			<0.001						
10/24/2019					<0.001				
8/13/2020		<0.001			<0.001				
8/14/2020							<0.001		
8/17/2020	0.00016 (J)					<0.001		<0.001	
8/19/2020									
9/24/2020		<0.001			<0.001				
9/25/2020							<0.001	<0.001	
9/28/2020	0.00023 (J)					<0.001			
3/3/2021	0.00026 (J)								
3/4/2021					<0.001		<0.001		
3/5/2021								0.0002 (J)	
3/9/2021									
3/12/2021		<0.001							
9/9/2021		<0.001							
9/13/2021	0.00024 (J)							<0.001	
9/14/2021			<0.001	<0.001	<0.001	<0.001			
9/15/2021									<0.001
9/16/2021							<0.001		
1/20/2022		<0.001	<0.001		<0.001				
1/21/2022							<0.001		
1/25/2022				<0.001		<0.001			
1/26/2022									<0.001
1/27/2022	0.00032 (J)							<0.001	
9/8/2022		<0.001							
9/12/2022									0.0002 (J)
9/13/2022					<0.001		<0.001		
9/14/2022			<0.001						
9/16/2022	0.00024 (J)			<0.001		<0.001		<0.001	

# Time Series

Constituent: Thallium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-93	B-97	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	<0.001		
9/24/2020			
9/25/2020			
9/28/2020	<0.001		
3/3/2021			
3/4/2021			
3/5/2021			
3/9/2021	<0.001		
3/12/2021			
9/9/2021			
9/13/2021			
9/14/2021			
9/15/2021	<0.001	<0.001	<0.001
9/16/2021			
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	<0.001	<0.001	<0.001
1/27/2022			
9/8/2022			
9/12/2022	<0.001		
9/13/2022		<0.001	<0.001
9/14/2022			
9/16/2022			

# Time Series

Constituent: Thallium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

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 11/17/2022 3:09 PM View: Constituents View  
 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 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

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	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			
9/7/2022			
9/8/2022			
9/13/2022			
9/14/2022	<0.001	0.00056 (J)	
9/15/2022			
9/20/2022			<0.001

# Time Series

Constituent: Thallium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
 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									<0.001
9/1/2016							0.0002 (J)	<0.001	
9/2/2016	<0.001	<0.001	<0.001						
9/7/2016						<0.001			
12/6/2016									<0.001
12/7/2016	0.0006 (J)								
12/8/2016		<0.001	<0.001			<0.001	<0.001	<0.001	
3/28/2017					<0.001				0.0002 (J)
3/29/2017	0.0006 (J)		6E-05 (J)						
3/30/2017		<0.001		<0.001				9E-05 (J)	
3/31/2017						9E-05 (J)	0.0002 (J)		
5/12/2017				<0.001	<0.001				
6/15/2017				<0.001	<0.001				
7/11/2017					<0.001				<0.001
7/12/2017	0.0006 (J)	<0.001		<0.001					
7/13/2017			7E-05 (J)			9E-05 (J)	0.0002 (J)	8E-05 (J)	
10/24/2017					<0.001				
10/25/2017	0.0005 (J)	<0.001	7E-05 (J)			9E-05 (J)			<0.001
10/26/2017				<0.001			0.0003 (J)	9E-05 (J)	
2/27/2018					<0.001				<0.001
2/28/2018	<0.001	<0.001	<0.001			<0.001			
3/1/2018				<0.001			0.00032 (J)		
3/2/2018								<0.001	
7/11/2018	<0.001	<0.001				<0.001			
7/12/2018			<0.001	<0.001			0.00031 (J)	<0.001	
11/6/2018					<0.001				<0.001
11/7/2018	<0.001 (J)	<0.001	<0.001			<0.001	<0.001 (J)	<0.001	
11/8/2018				<0.001 (J)					
8/27/2019					<0.001				<0.001
8/28/2019						6.9E-05 (J)			
8/29/2019	0.00084 (J)	<0.001	6.4E-05 (J)	<0.001			0.00025 (J)	7.8E-05 (J)	
10/15/2019					7.3E-05 (J)				
10/16/2019									7.8E-05 (J)
10/17/2019	0.00062 (J)	<0.001				<0.001	0.00025 (J)		
10/18/2019			<0.001	<0.001				<0.001	
3/2/2020					<0.001				6.2E-05 (J)
3/3/2020		<0.001	7E-05 (J)						
3/4/2020	0.0023 (J)			<0.001		<0.001	0.00021 (J)	6.8E-05 (J)	
8/11/2020									
8/12/2020					<0.001		0.00018 (J)		<0.001
8/13/2020	0.0016 (J)			<0.001		<0.001		<0.001	
8/14/2020		<0.001	<0.001						
9/22/2020	0.00055 (J)				<0.001	<0.001			<0.001
9/23/2020							0.00026 (J)	<0.001	
9/24/2020		<0.001	<0.001	<0.001					
3/1/2021					<0.001				
3/2/2021	0.0014 (J)								<0.001
3/3/2021		<0.001	<0.001	<0.001		<0.001	0.00023 (J)	<0.001	
9/9/2021		<0.001	<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 11/17/2022 3:09 PM View: Constituents View  
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
1/20/2022									
1/21/2022	<0.001	<0.001	<0.001	<0.001		<0.001			
1/24/2022					<0.001		0.00028 (J)	<0.001	<0.001
1/25/2022									
1/26/2022									
9/13/2022						<0.001	0.00021 (J)	<0.001	
9/14/2022									<0.001
9/15/2022	0.001 (J)	<0.001							
9/16/2022			<0.001						
9/19/2022					<0.001				
9/20/2022				<0.001					

# Time Series

Constituent: Thallium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9
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		
9/22/2020		0.00043 (J)
9/23/2020	0.0002 (J)	
9/24/2020		
3/1/2021		
3/2/2021	0.00019 (J)	<0.001
3/3/2021		
9/9/2021		
9/10/2021		0.0004 (J)
9/13/2021	0.00019 (J)	

# Time Series

Constituent: Thallium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-8	DGWC-9
1/20/2022		
1/21/2022		
1/24/2022		
1/25/2022	0.00019 (J)	
1/26/2022		<0.001
9/13/2022		
9/14/2022		
9/15/2022	<0.001	
9/16/2022		
9/19/2022		<0.001
9/20/2022		



# Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-115D	B-120D	B-122D
9/25/2020			
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/4/2021			
3/5/2021			
3/8/2021			
4/14/2021	480		
4/15/2021		982	
9/10/2021			
9/13/2021			
9/14/2021	499	882	
1/20/2022	553	816	
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022			
6/6/2022			307
9/8/2022			
9/13/2022			
9/14/2022	519		
9/15/2022			
9/16/2022			
9/19/2022		867	
9/20/2022			



# Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-56	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92
1/28/2019			204						
1/30/2019		287		601					
10/21/2019		180		617		458	214		
10/22/2019			178						
10/24/2019					106				
9/24/2020		170			124				
9/25/2020							244	624	
9/28/2020	320					454			
3/3/2021	303								
3/4/2021					128		234		
3/5/2021								798	
3/9/2021									
3/12/2021		172							
9/9/2021		174							
9/13/2021	321							572	
9/14/2021			170	490	94	536			
9/15/2021									612
9/16/2021							223		
1/20/2022		187	177		129				
1/21/2022							236		
1/25/2022				482		668			
1/26/2022									572
1/27/2022	344							654	
9/8/2022		160							
9/12/2022									696
9/13/2022					113		210		
9/14/2022			206						
9/16/2022	353			498		468		564	

# Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-93	B-97	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	686		
3/3/2021			
3/4/2021			
3/5/2021			
3/9/2021	790		
3/12/2021			
9/9/2021			
9/13/2021			
9/14/2021			
9/15/2021	812	892	524
9/16/2021			
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	766	930	139
1/27/2022			
9/8/2022			
9/12/2022	884		
9/13/2022		1050	267
9/14/2022			
9/16/2022			

# Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

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 (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
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 (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-17	DGWC-19	DGWC-2
1/20/2022			238
1/24/2022	426		
1/25/2022		694	
1/26/2022			
1/28/2022			
9/7/2022			
9/8/2022			
9/13/2022			
9/14/2022	434	572	
9/15/2022			
9/20/2022			230

# Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

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					
3/1/2021					1140				
3/2/2021	742								730
3/3/2021		459	442	425		531	228	521	
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			
1/21/2022	702						289		
1/24/2022					1520			500	810

# Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
1/25/2022									
1/26/2022									
9/13/2022						540	277	527	
9/14/2022									850
9/15/2022	618	440							
9/16/2022			462						
9/19/2022					1670				
9/20/2022				511					



# Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9
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		
3/1/2021		
3/2/2021	291	449
3/3/2021		
9/9/2021		
9/10/2021		466
9/13/2021	306	
1/20/2022		
1/21/2022		
1/24/2022		

# Time Series

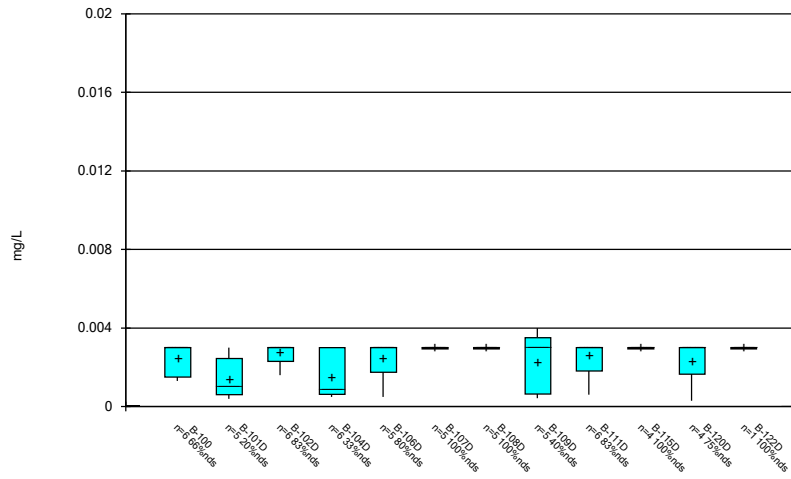
Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-8	DGWC-9
1/25/2022	281	
1/26/2022		409
9/13/2022		
9/14/2022		
9/15/2022	234	
9/16/2022		
9/19/2022		456
9/20/2022		

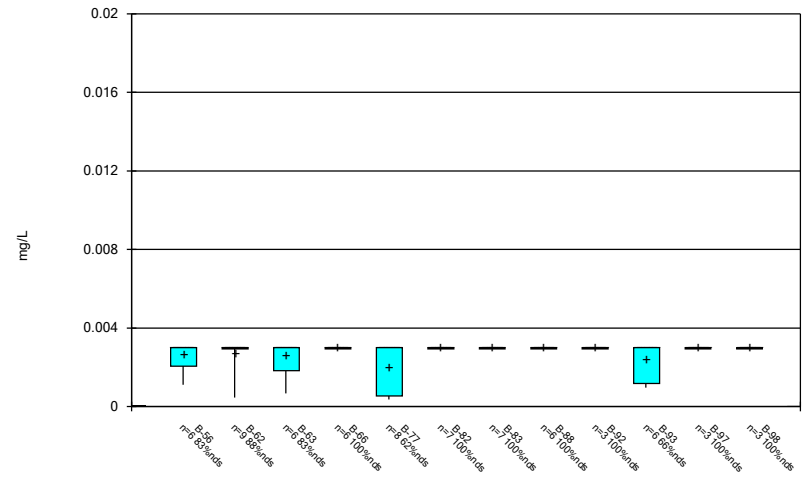
FIGURE B.

### Box & Whiskers Plot



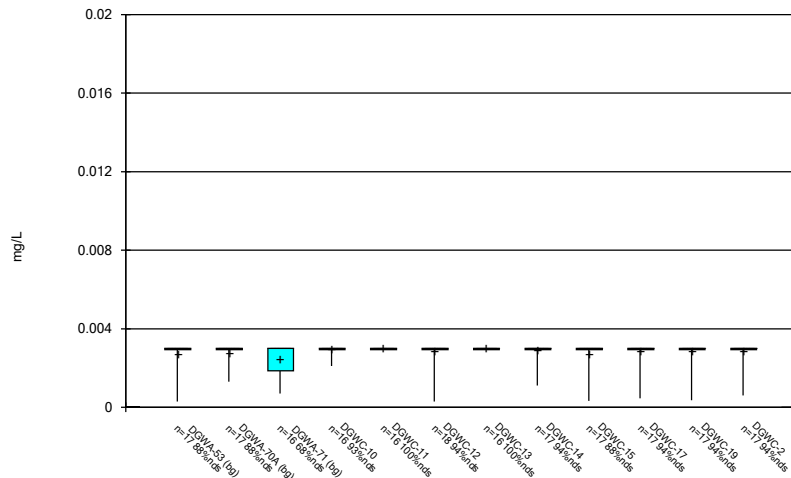
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 Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



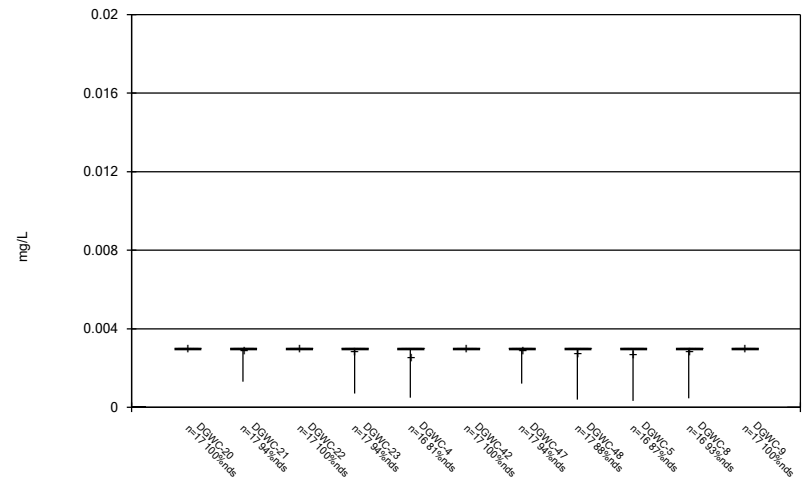
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 Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



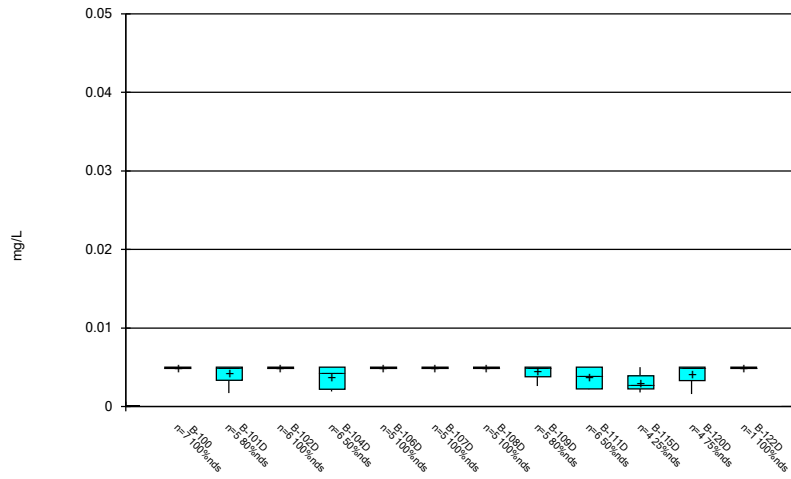
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 Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



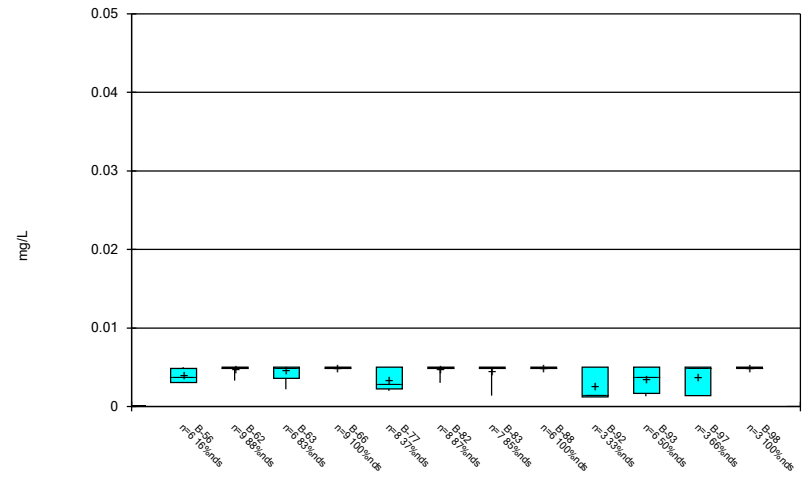
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



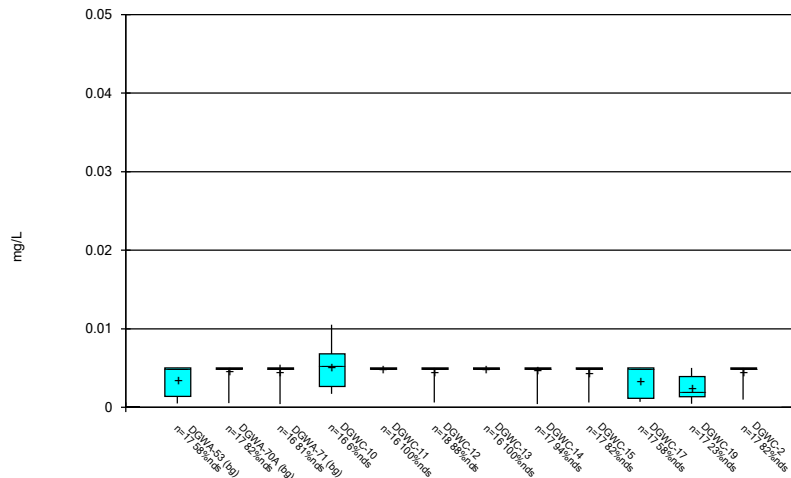
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



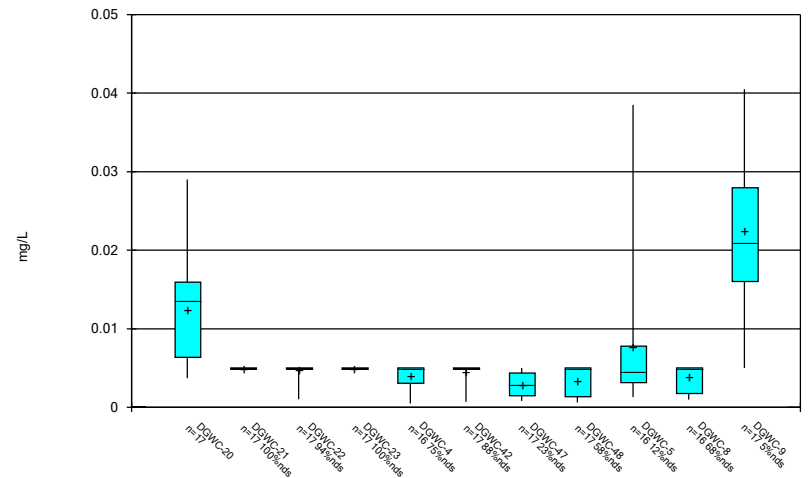
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



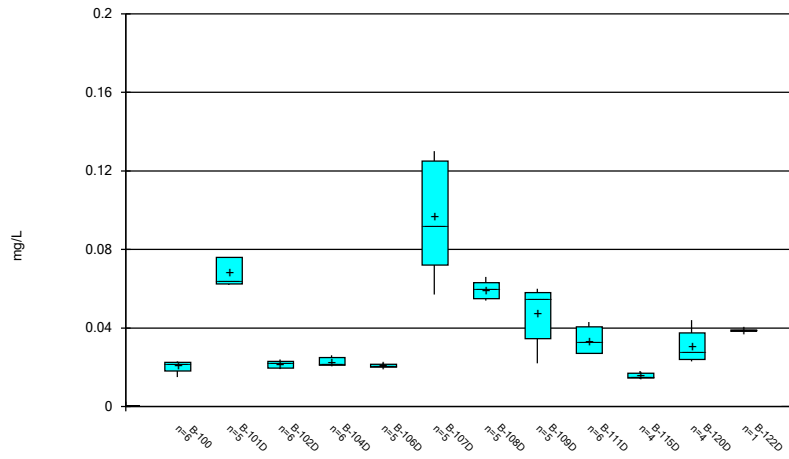
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



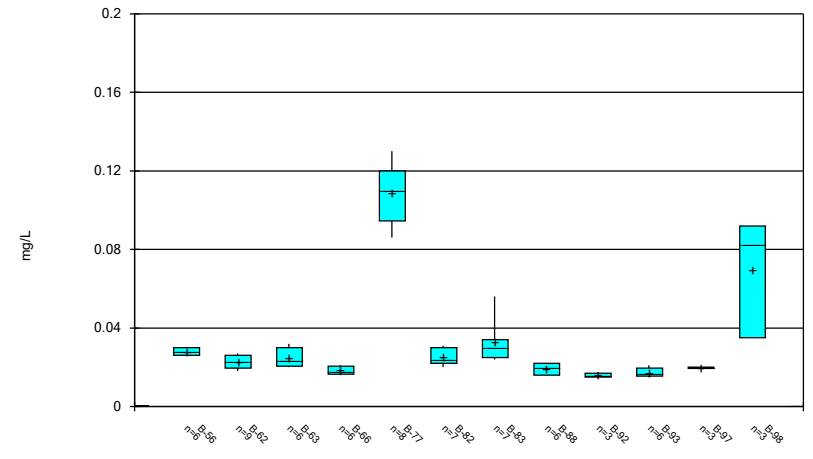
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Box & Whiskers Plot



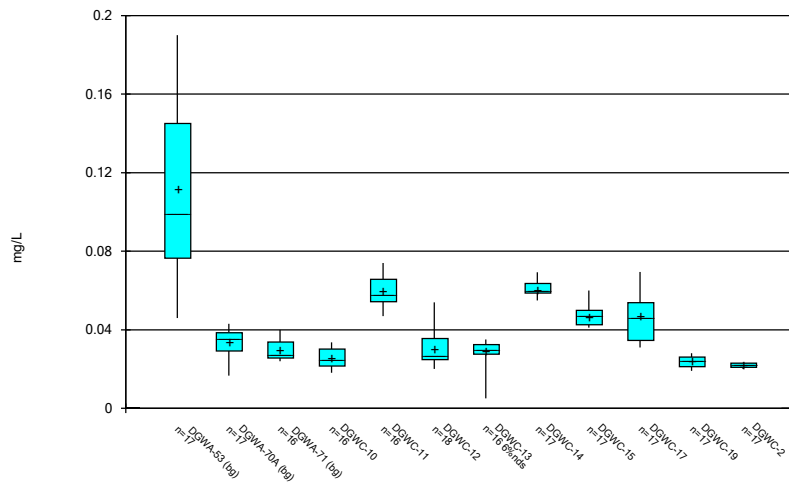
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



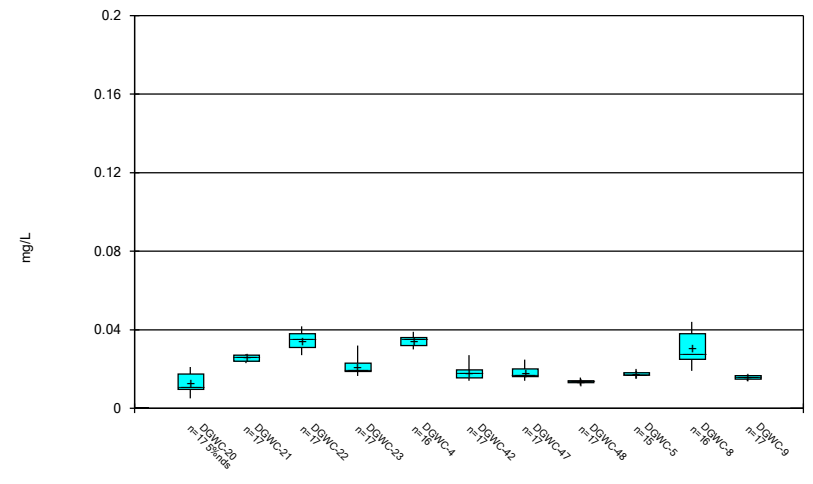
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



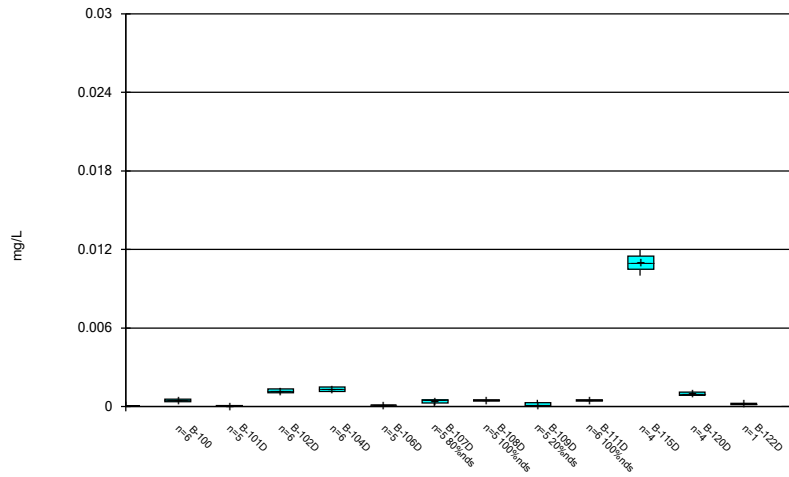
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Box & Whiskers Plot



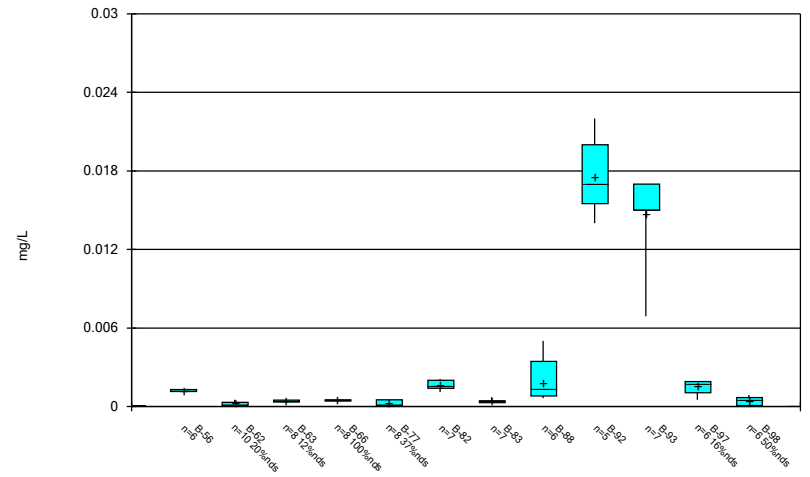
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### Box & Whiskers Plot



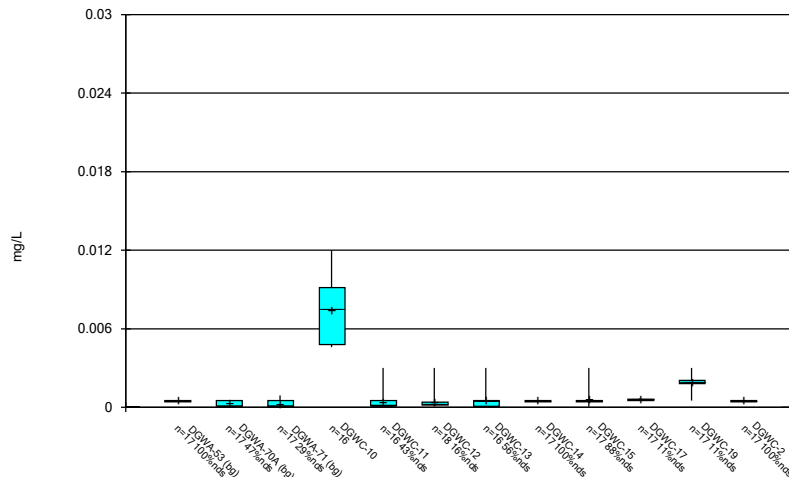
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 Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



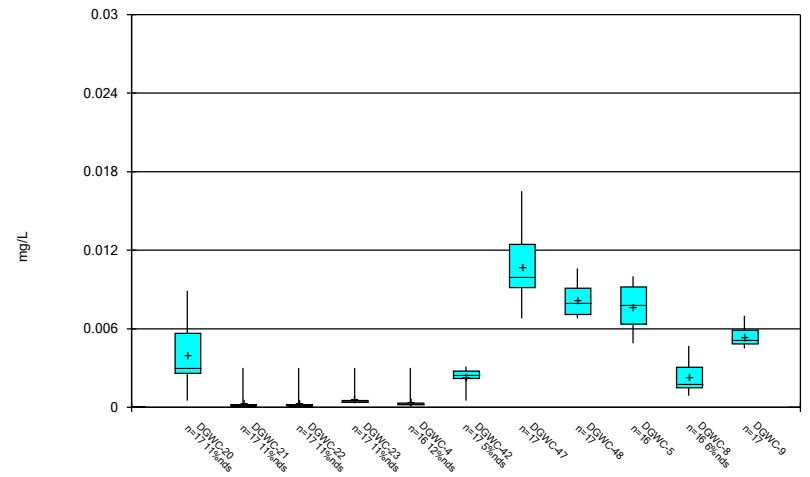
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 Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



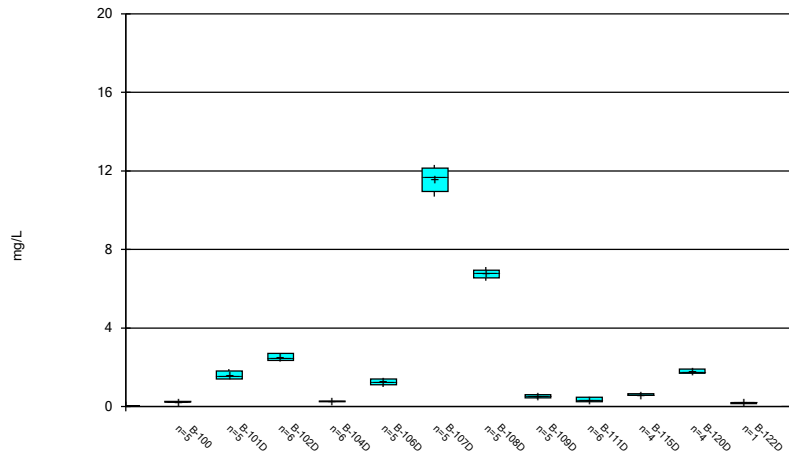
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 Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



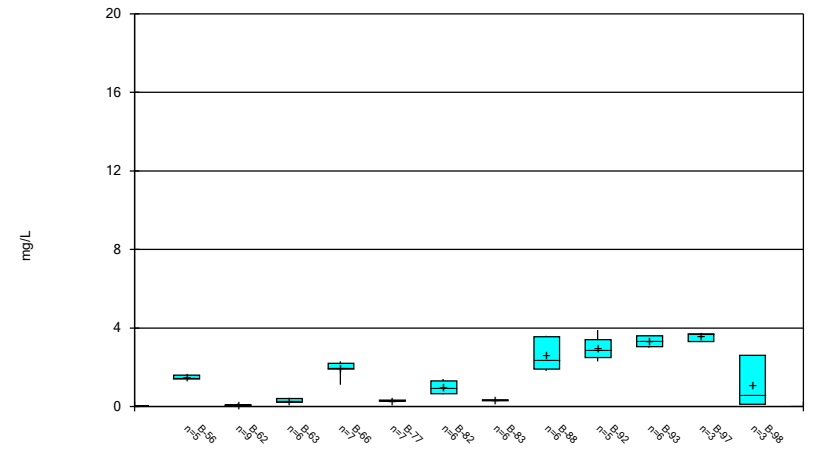
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



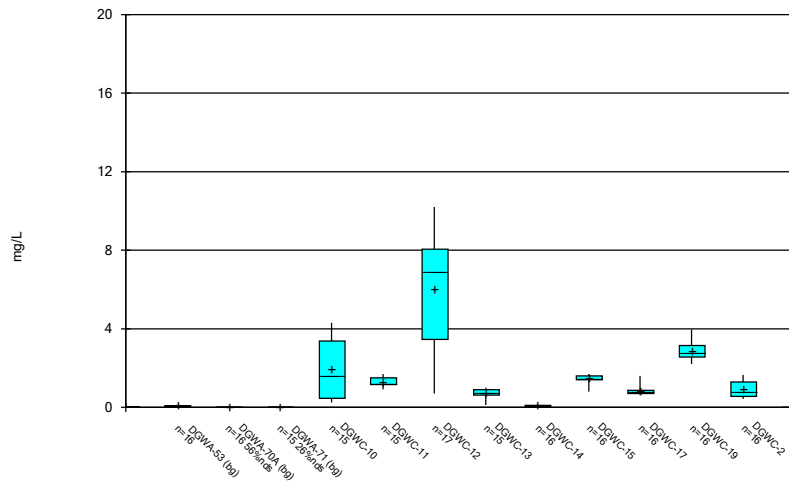
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



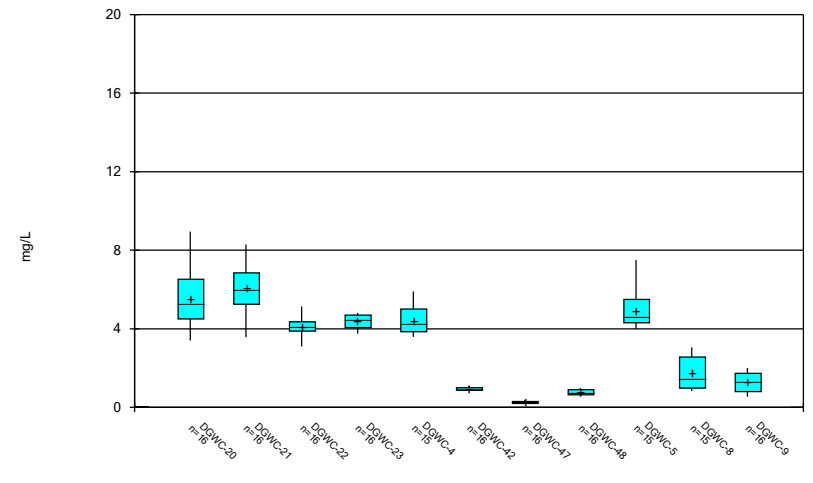
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



Constituent: Boron Analysis Run 11/17/2022 10:52 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

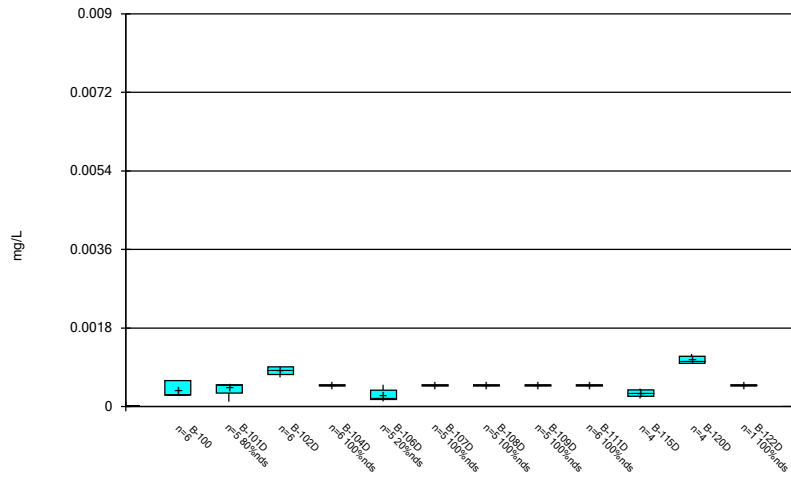
Box & Whiskers Plot



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Plant McDonough Client: Southern Company Data: McDonough AP

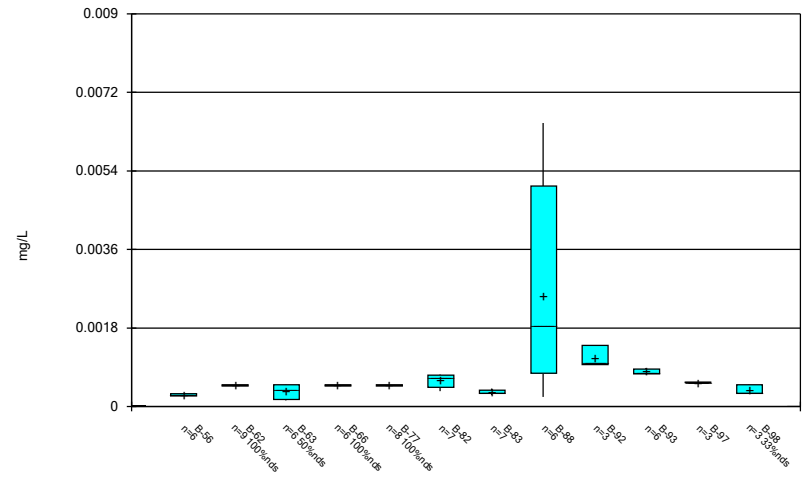


### Box & Whiskers Plot



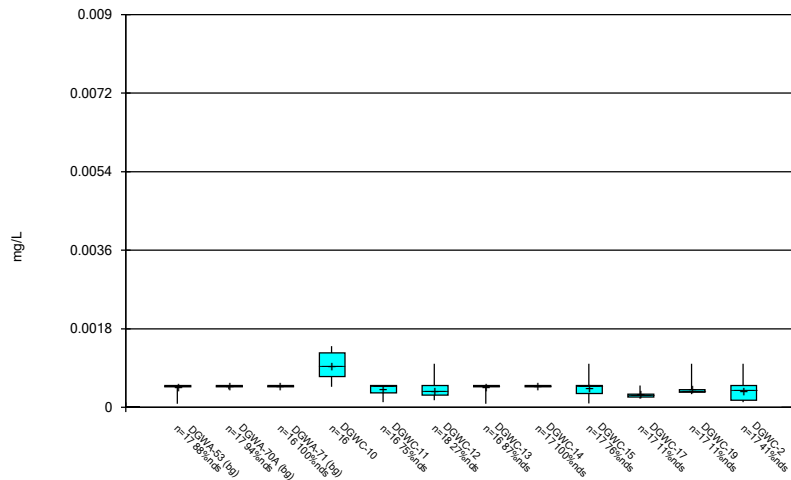
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 Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



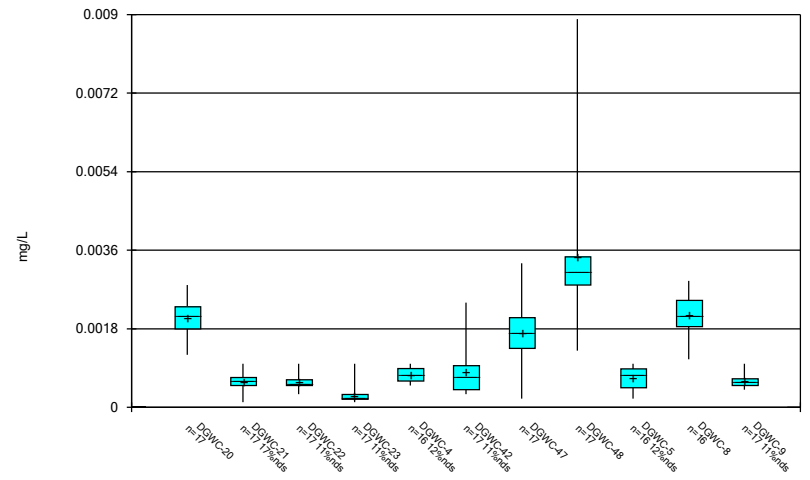
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### Box & Whiskers Plot



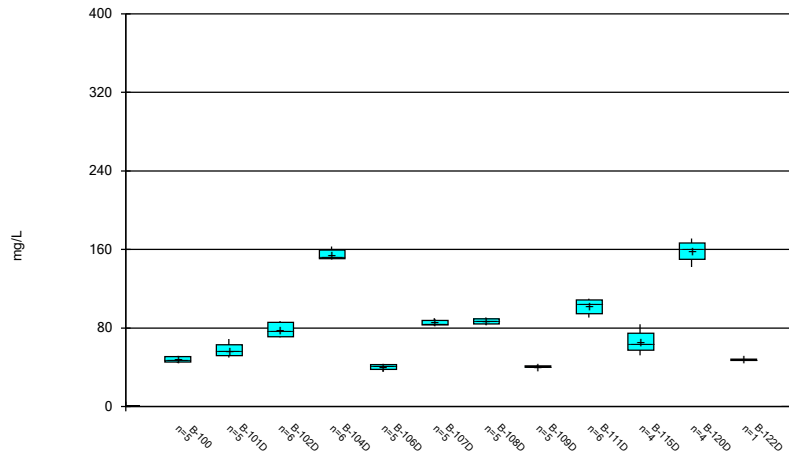
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### Box & Whiskers Plot



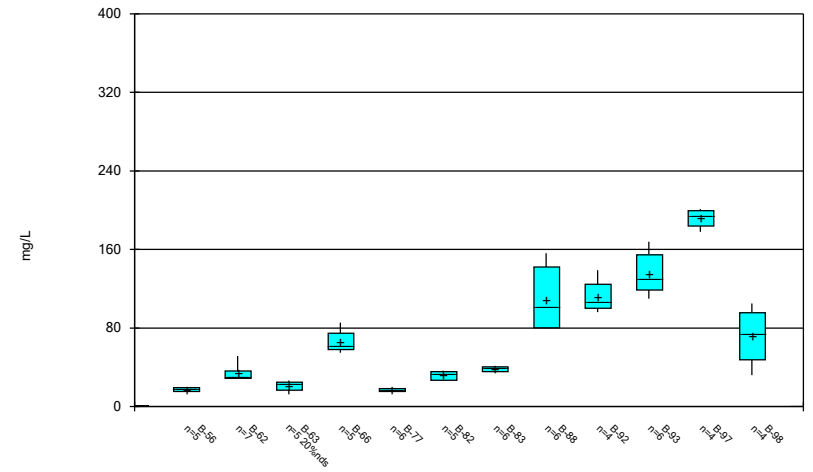
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



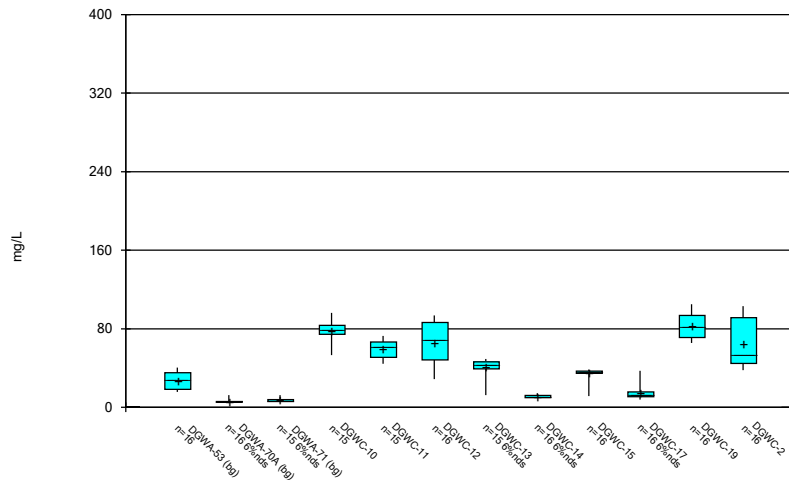
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



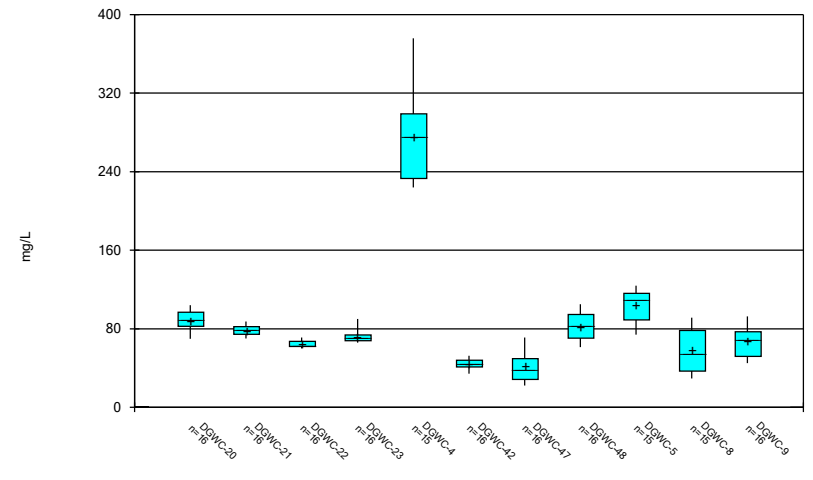
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Box & Whiskers Plot



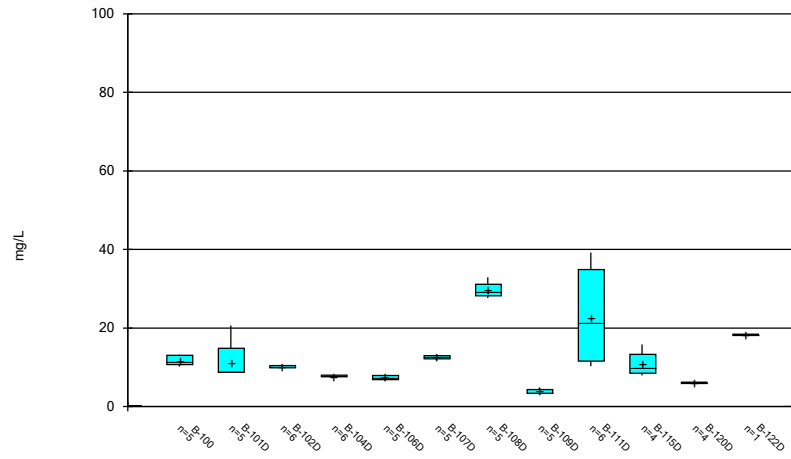
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



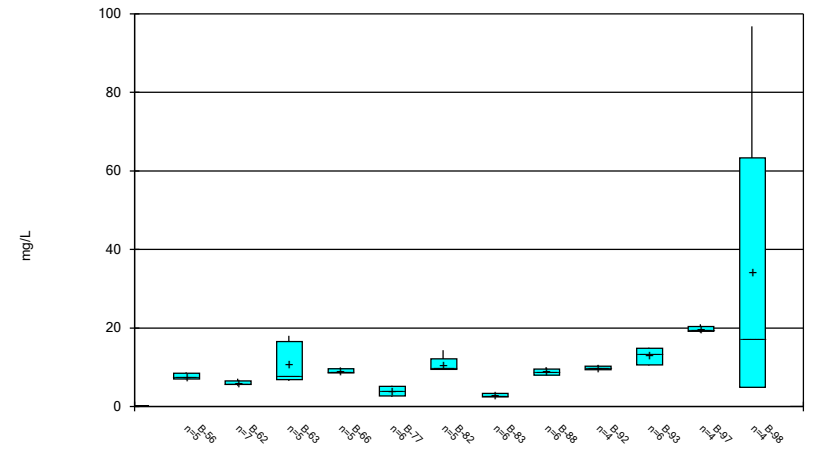
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



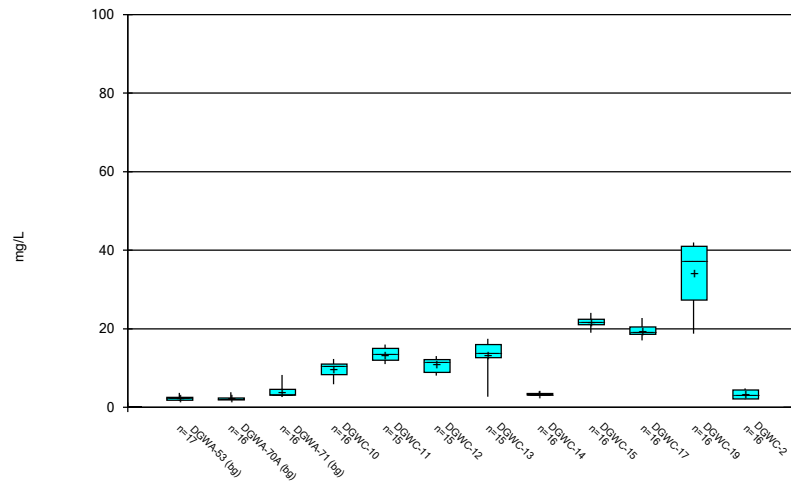
Constituent: Chloride Analysis Run 11/17/2022 10:52 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



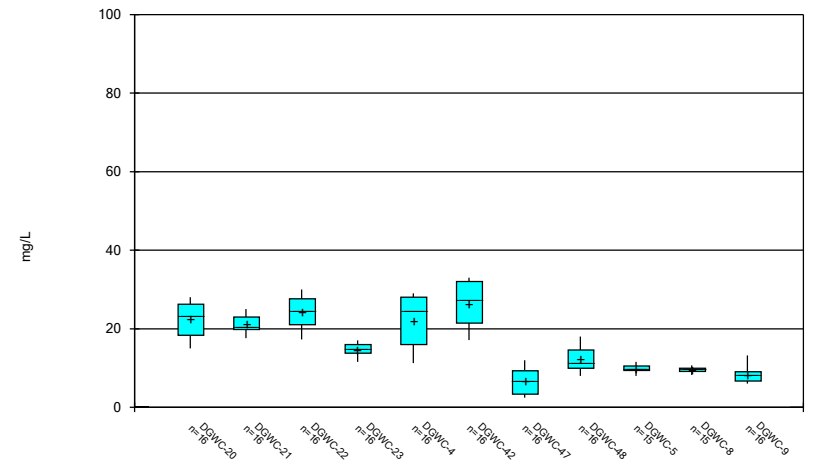
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



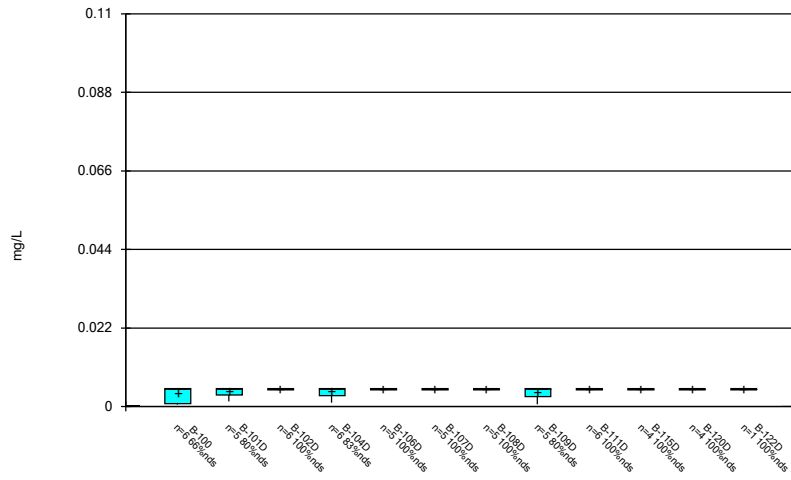
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Box & Whiskers Plot



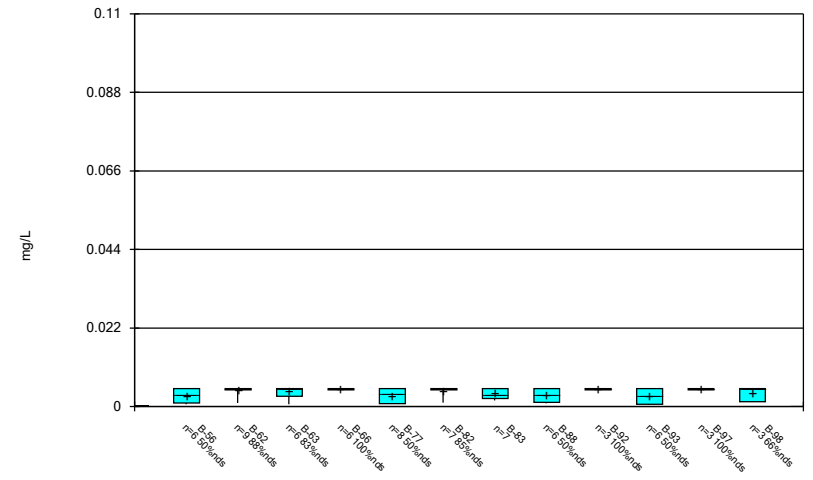
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Box & Whiskers Plot



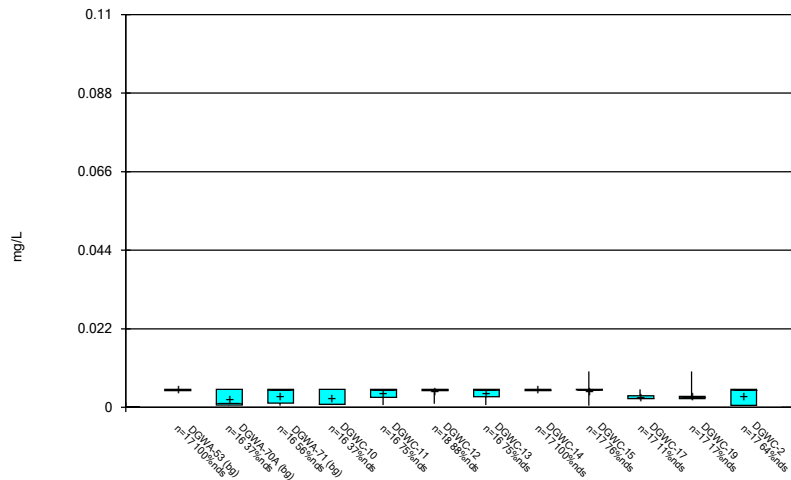
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



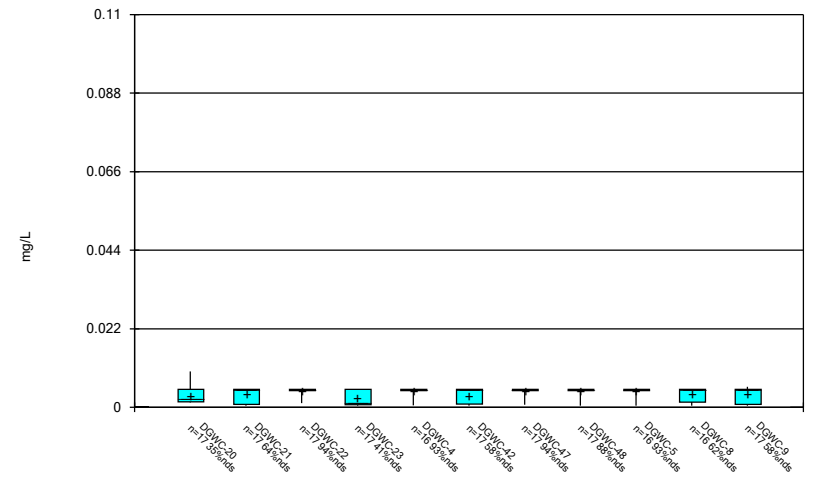
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



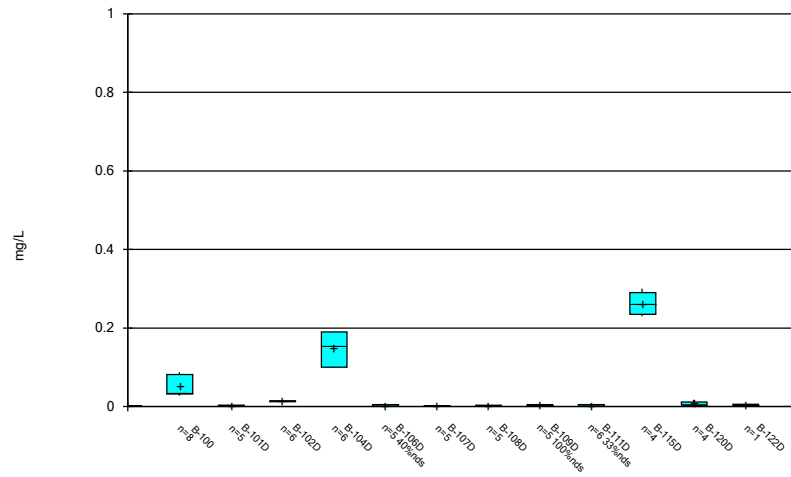
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



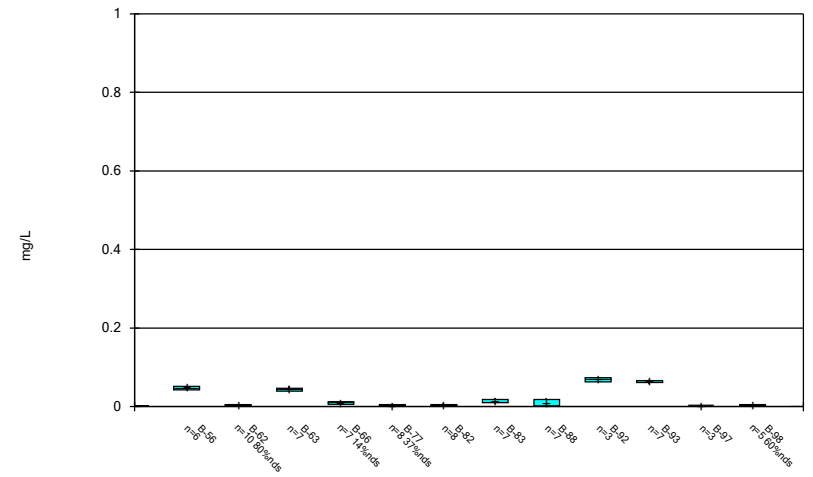
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



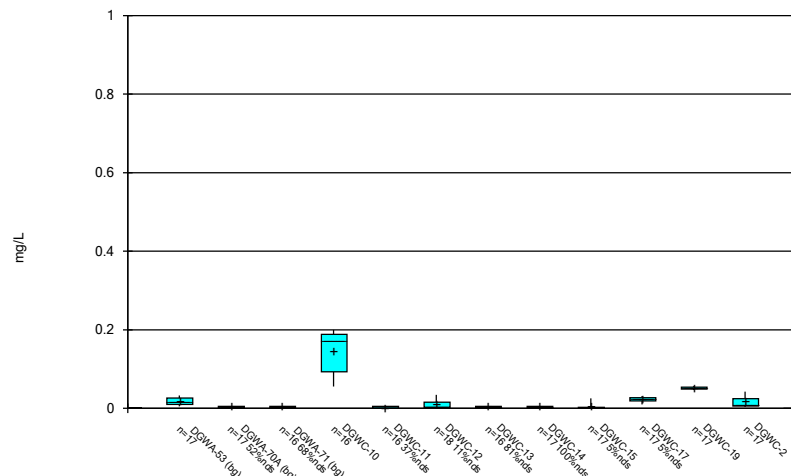
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



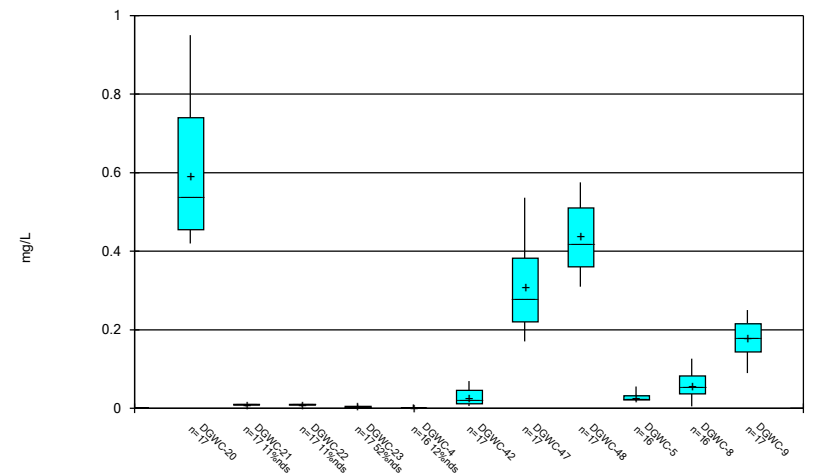
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



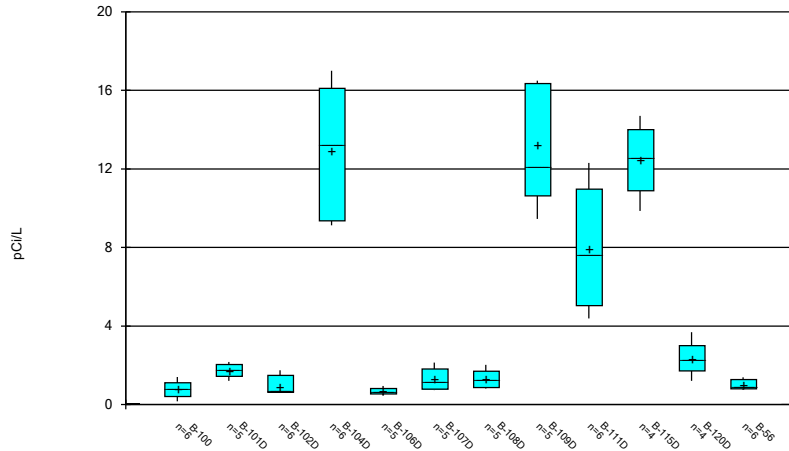
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



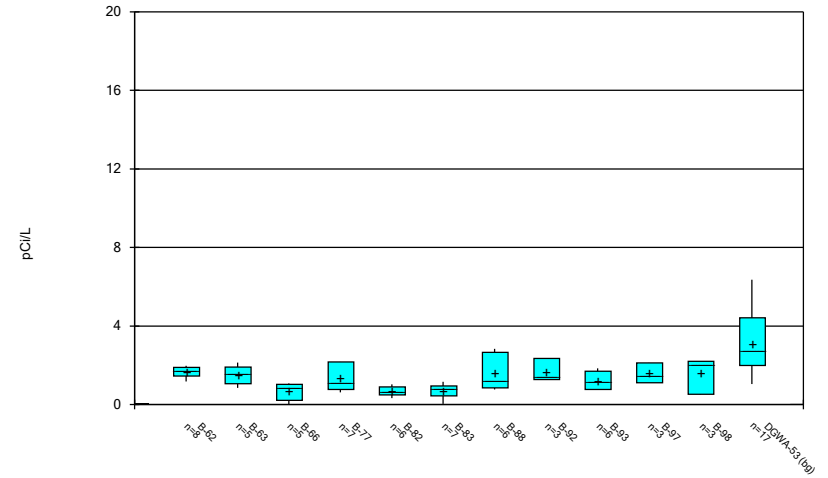
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



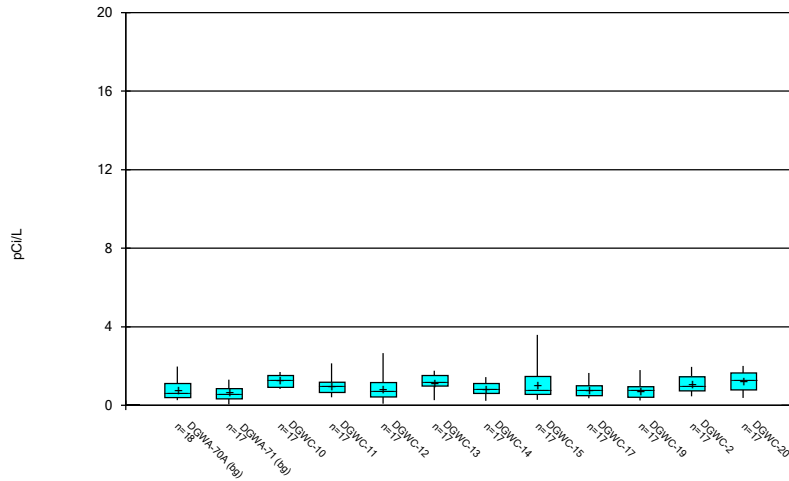
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



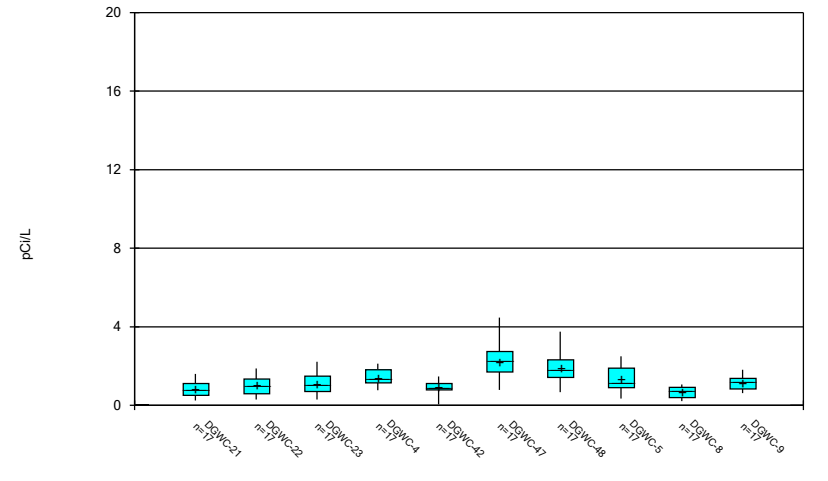
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



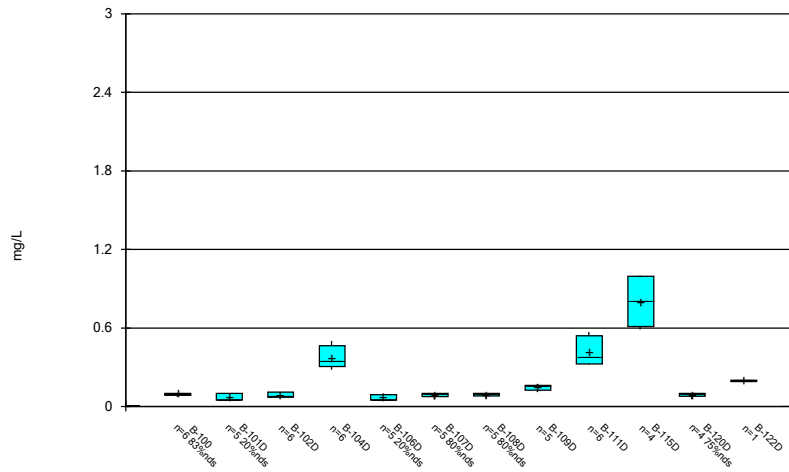
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



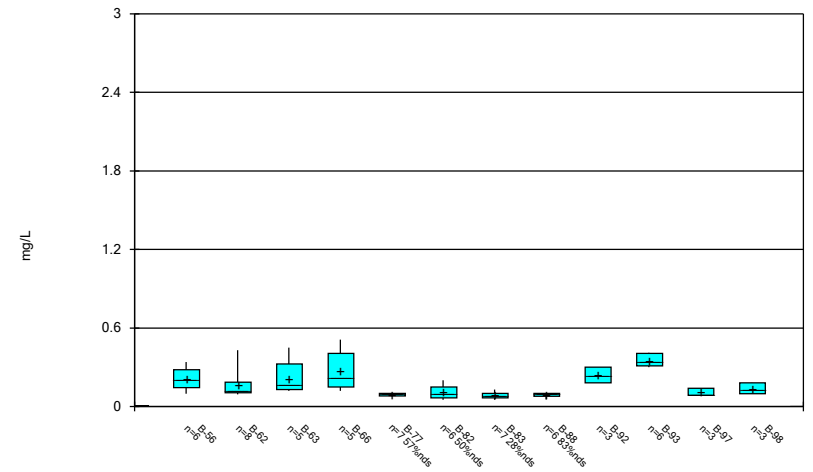
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Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



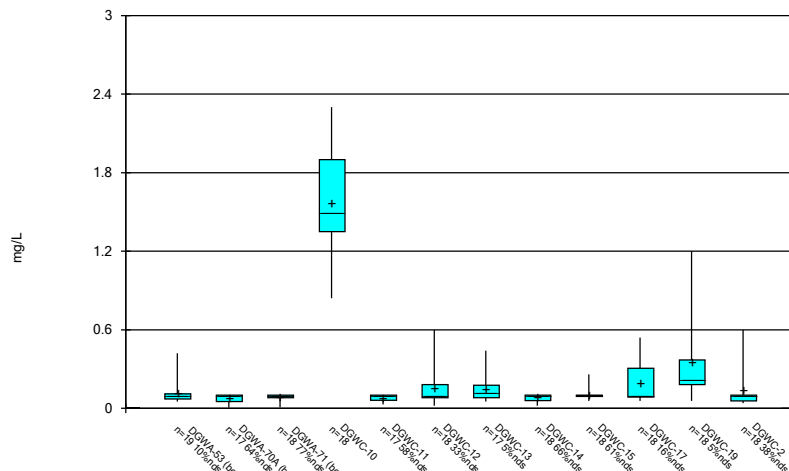
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 Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



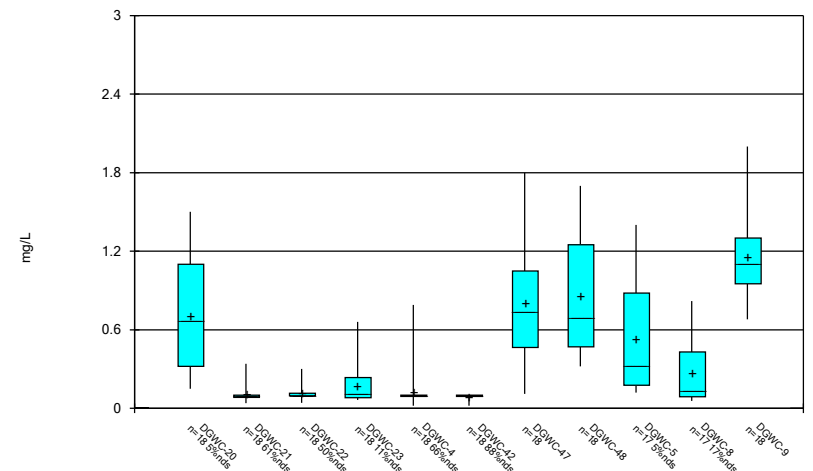
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 Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



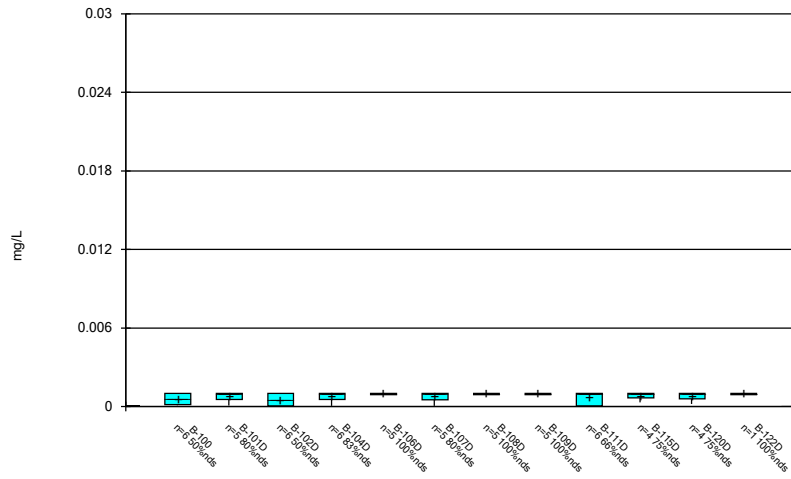
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 Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



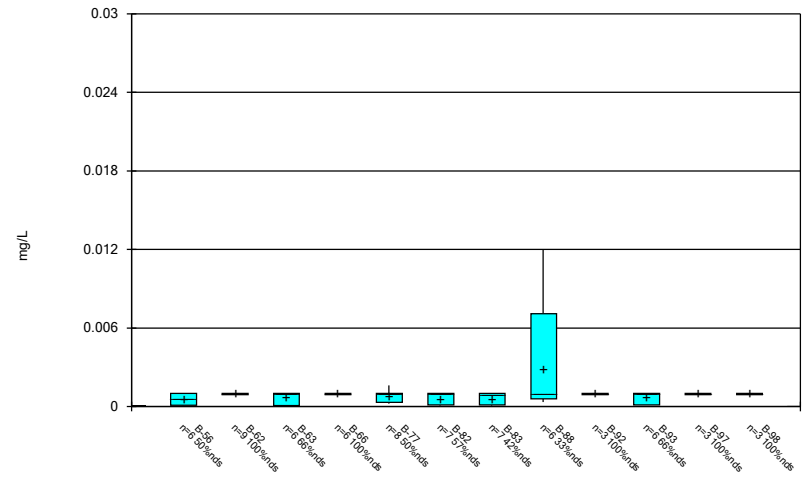
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



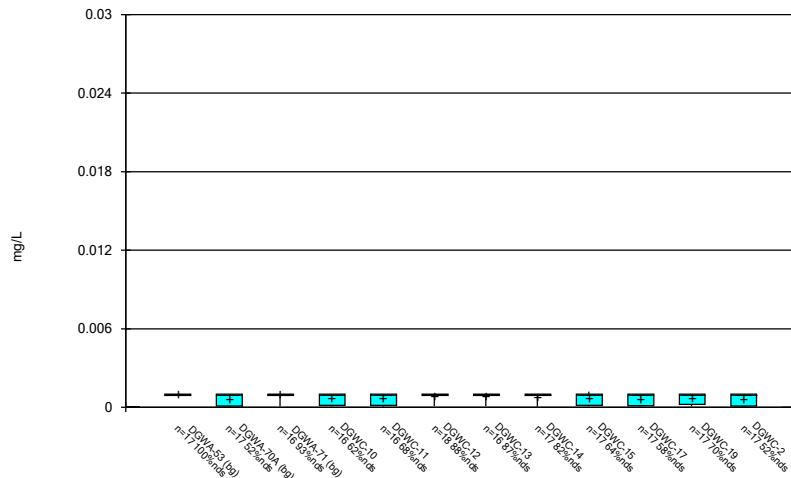
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



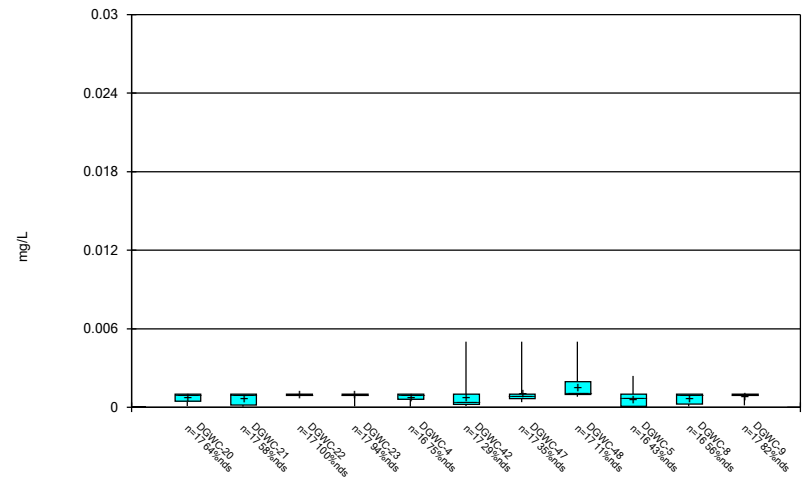
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



Constituent: Lead Analysis Run 11/17/2022 10:52 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

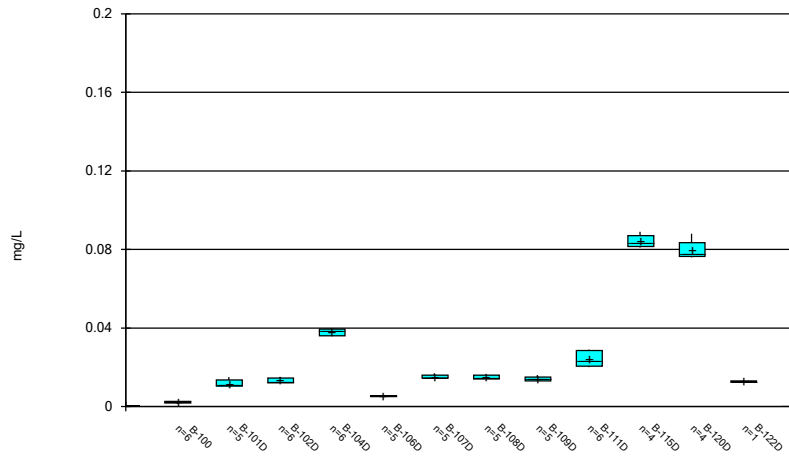
Box & Whiskers Plot



Constituent: Lead Analysis Run 11/17/2022 10:52 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

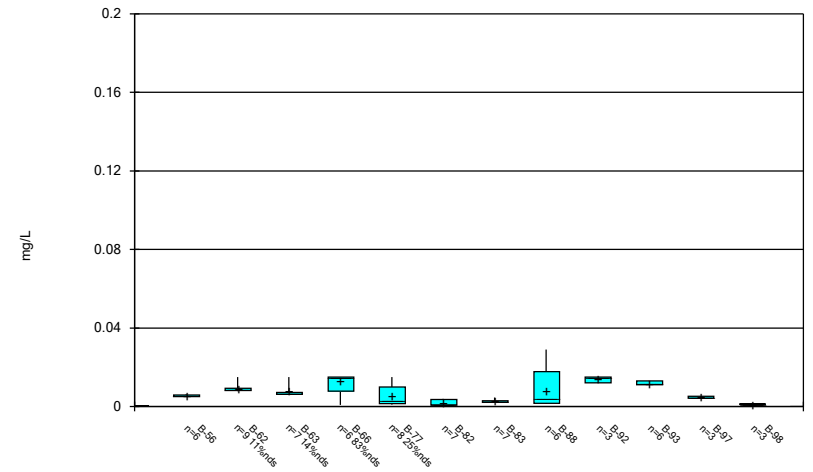


Box & Whiskers Plot



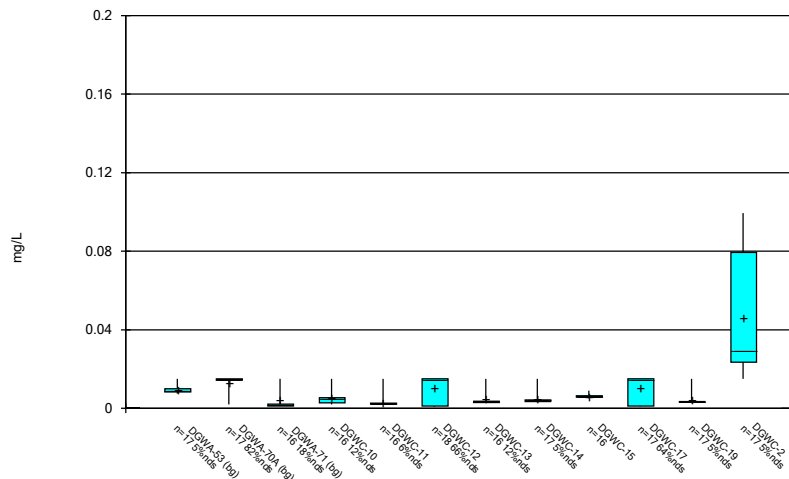
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



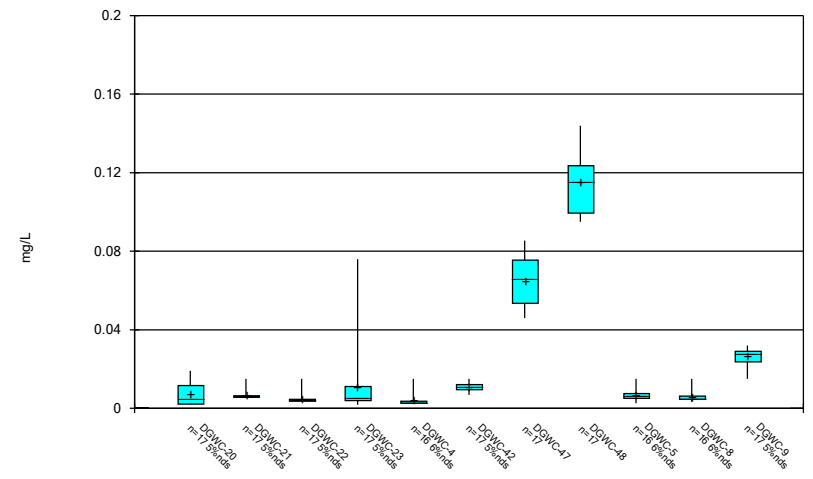
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



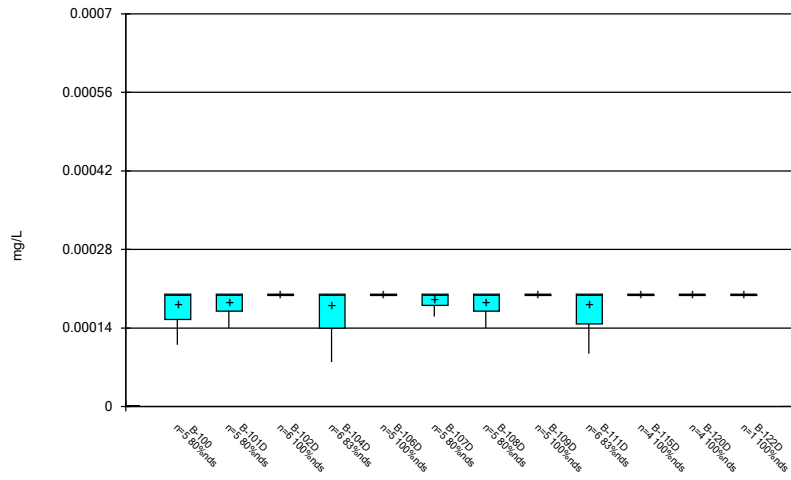
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



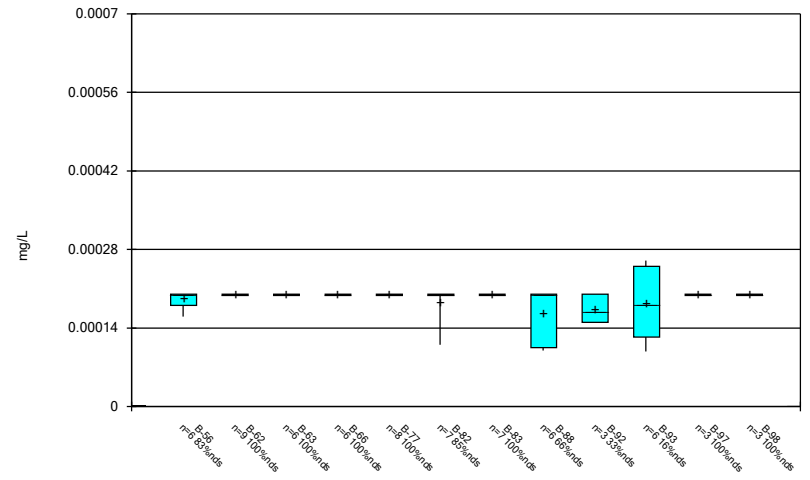
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Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



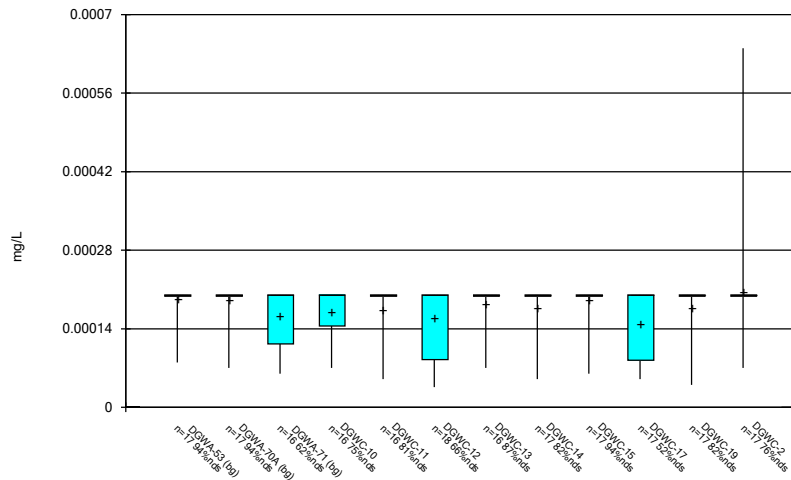
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 Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



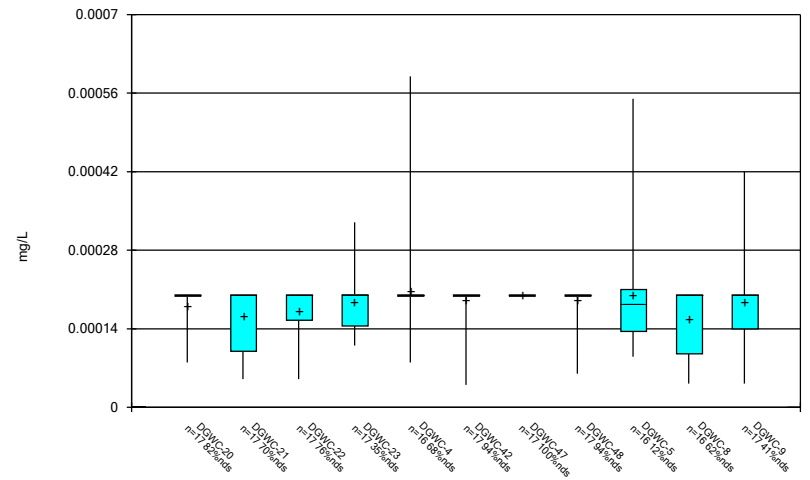
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### Box & Whiskers Plot



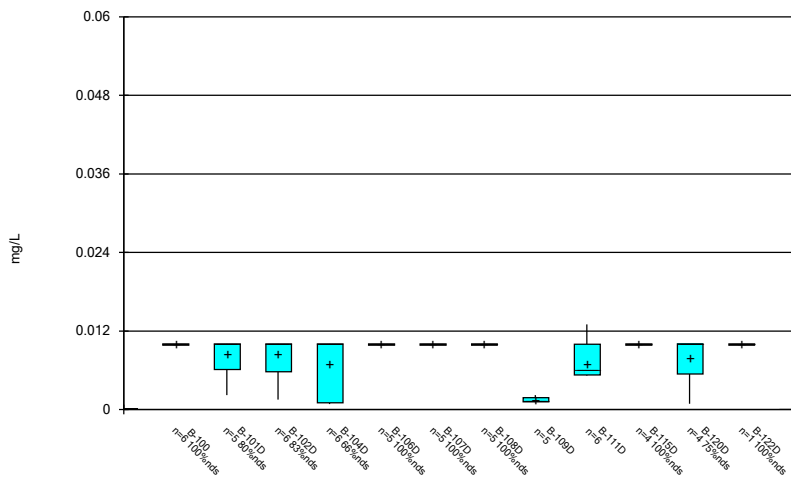
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 Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



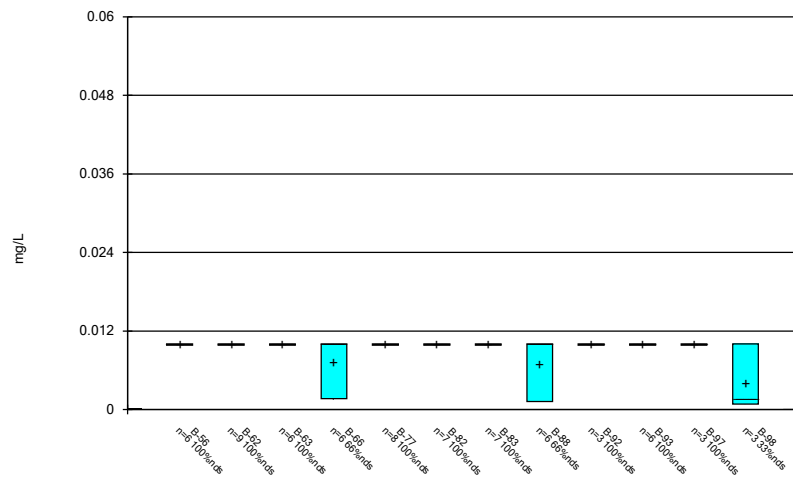
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



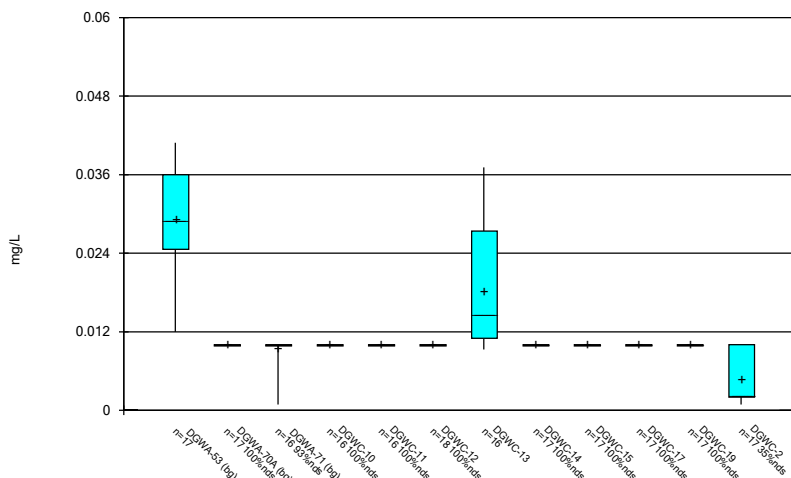
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



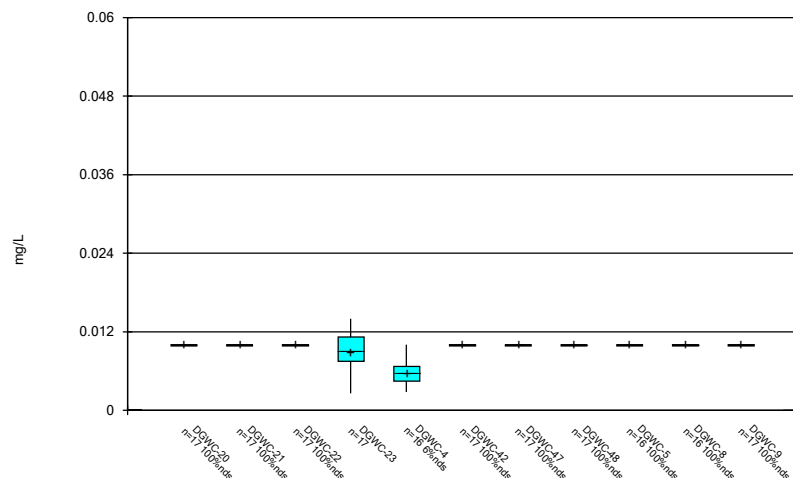
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



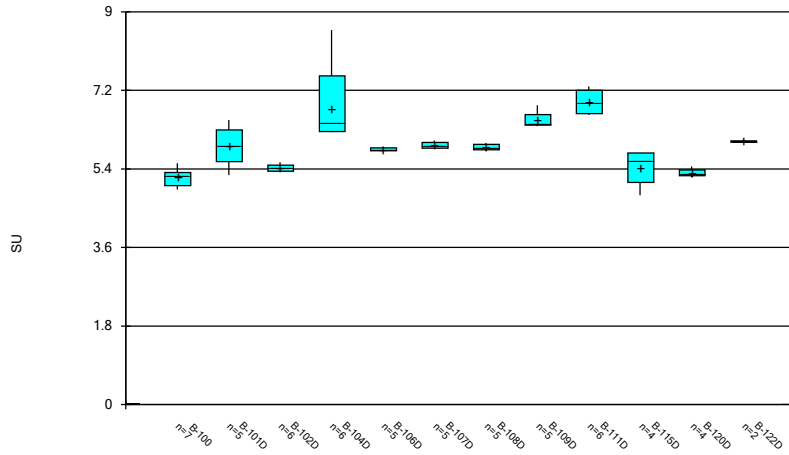
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



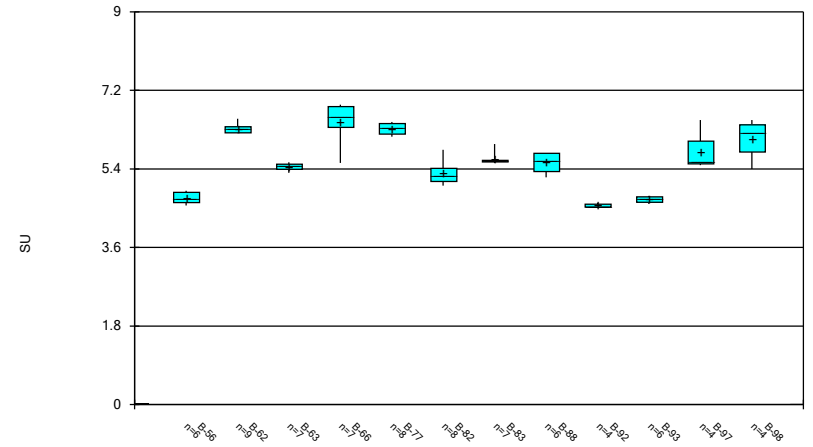
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



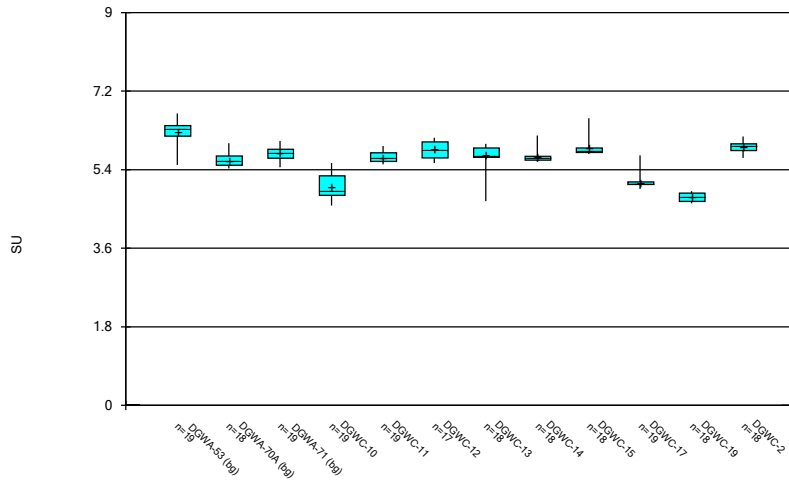
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



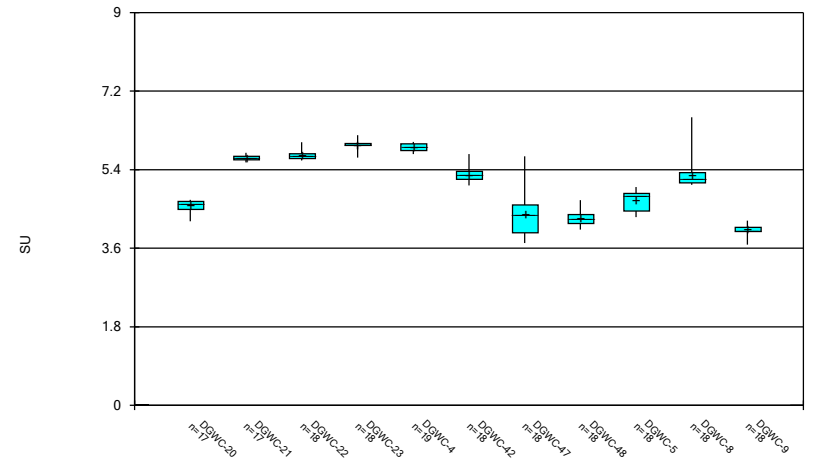
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



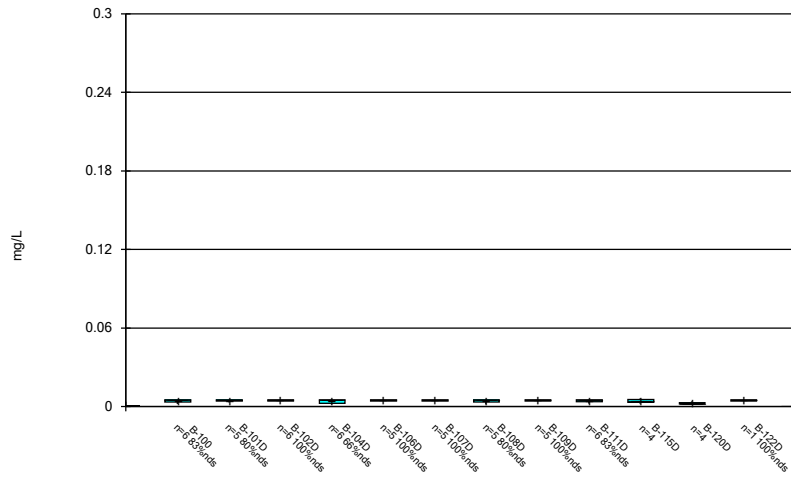
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



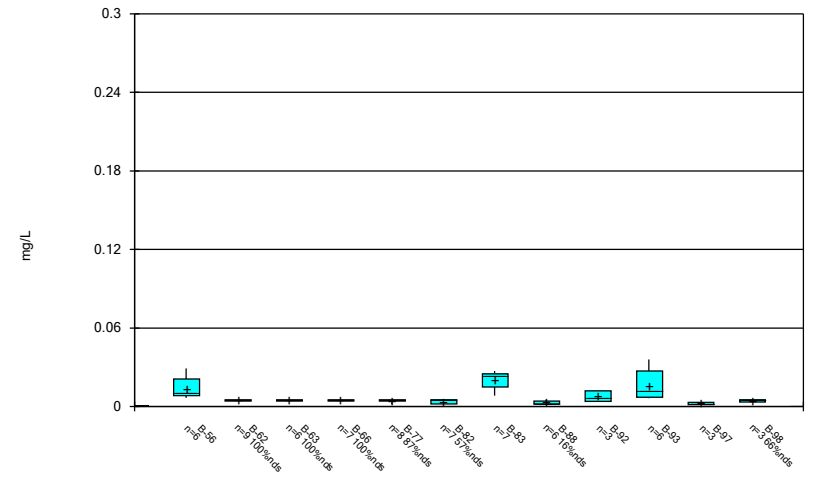
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Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



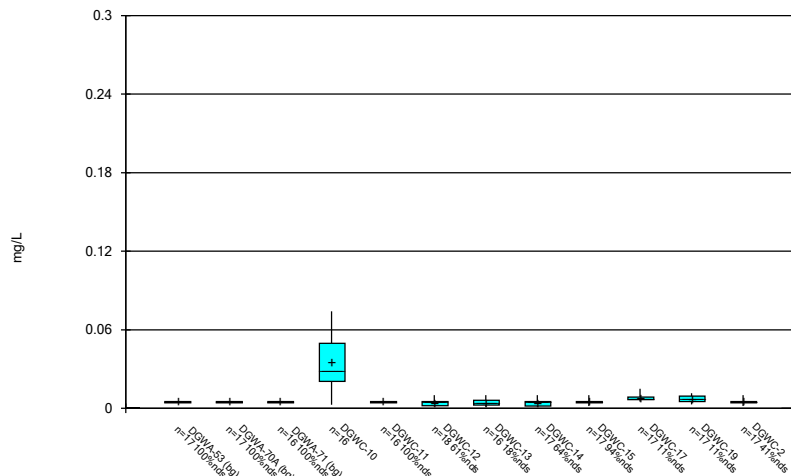
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 Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



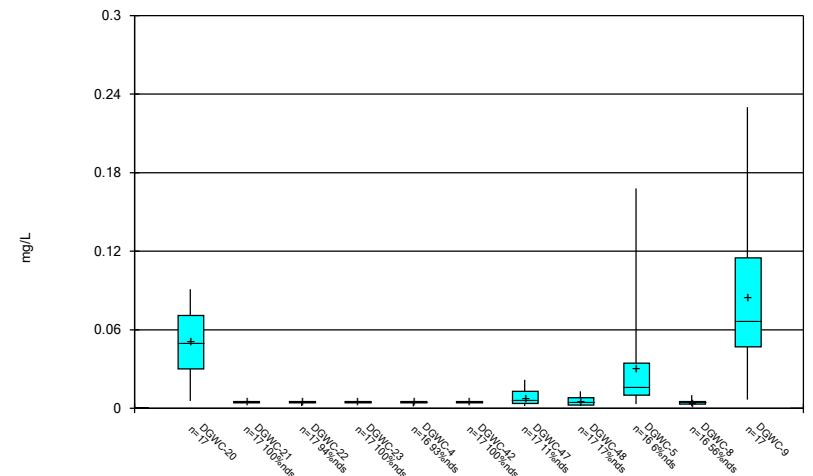
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 Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



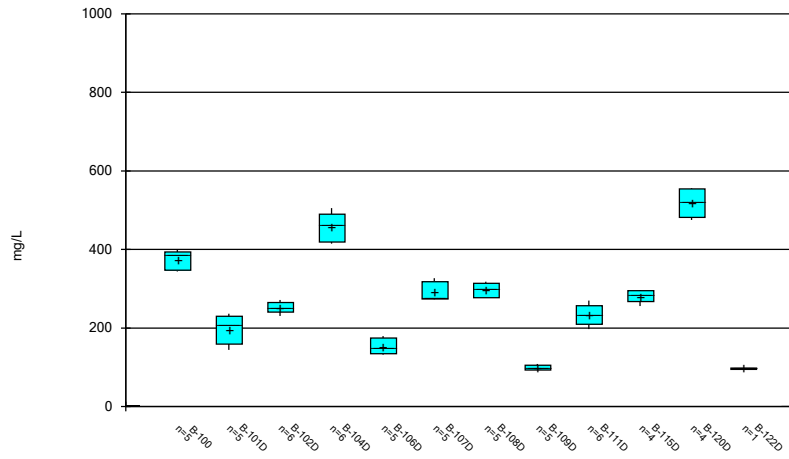
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 Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



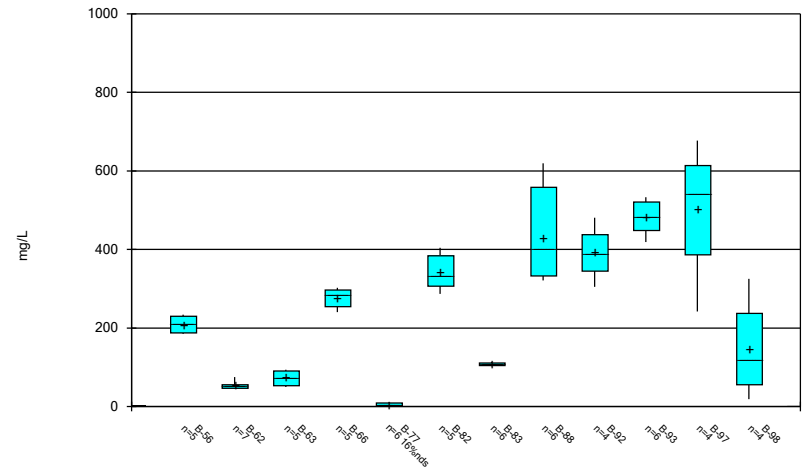
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



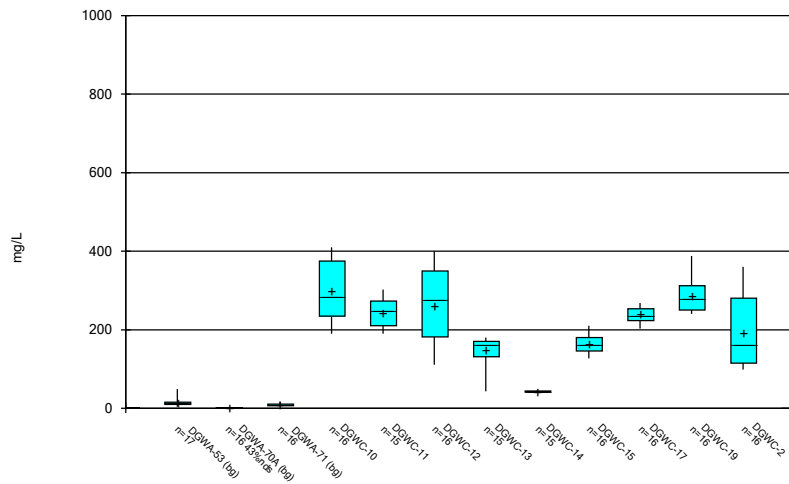
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



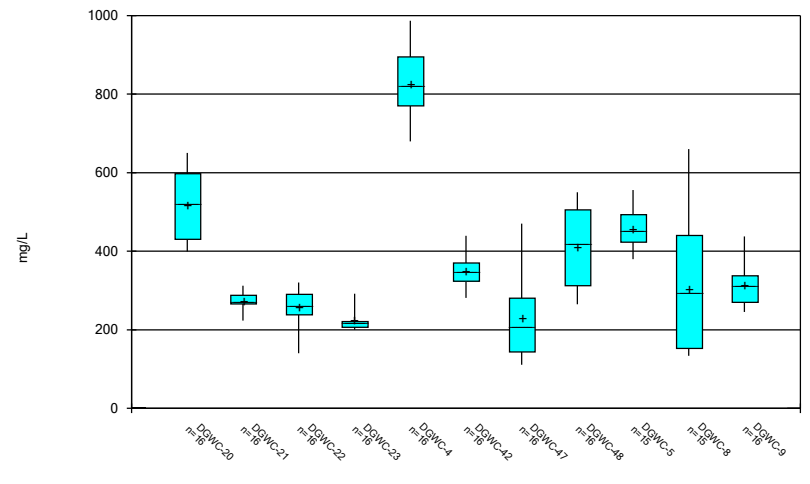
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Box & Whiskers Plot



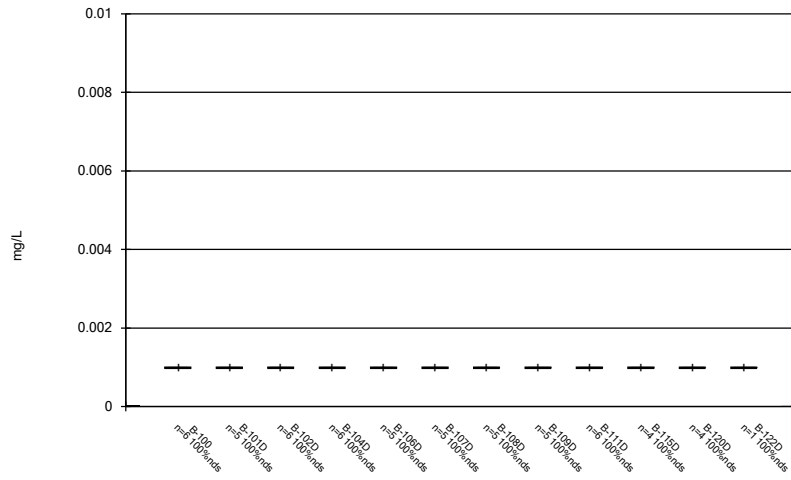
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



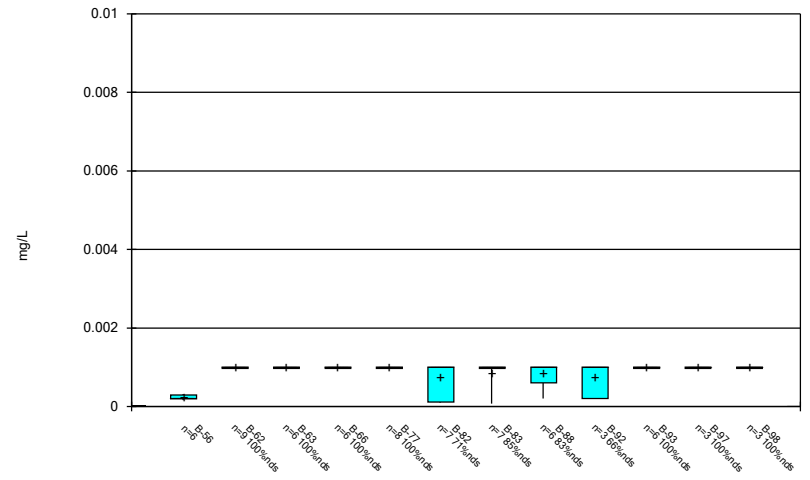
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



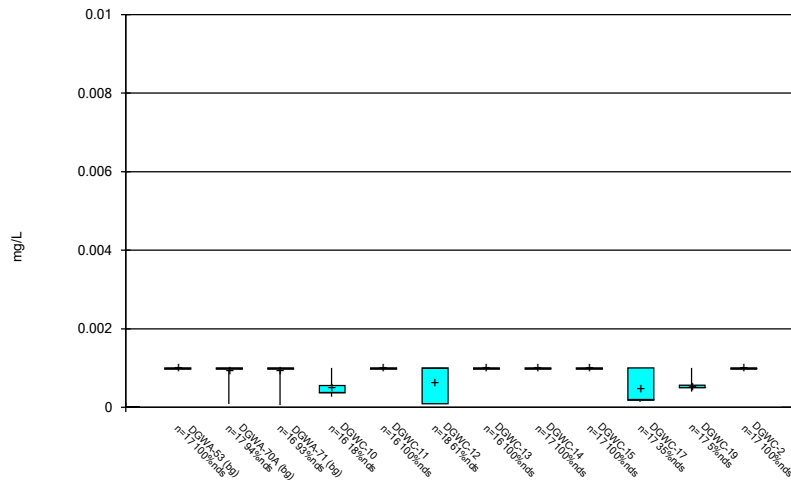
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



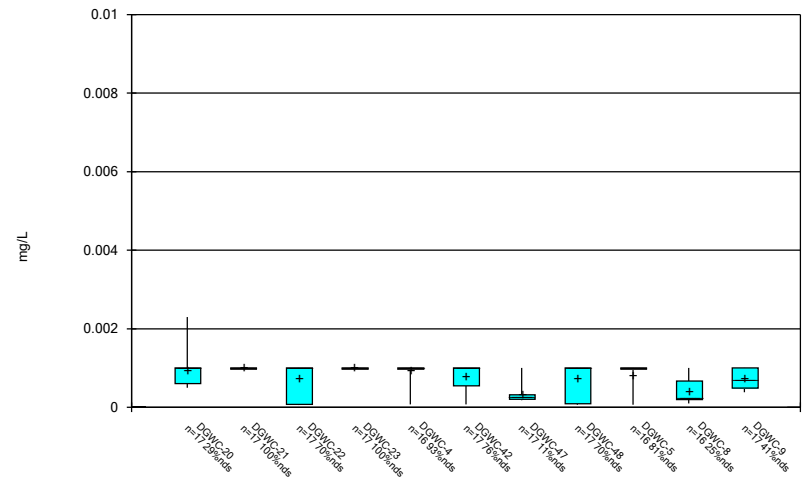
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Box & Whiskers Plot



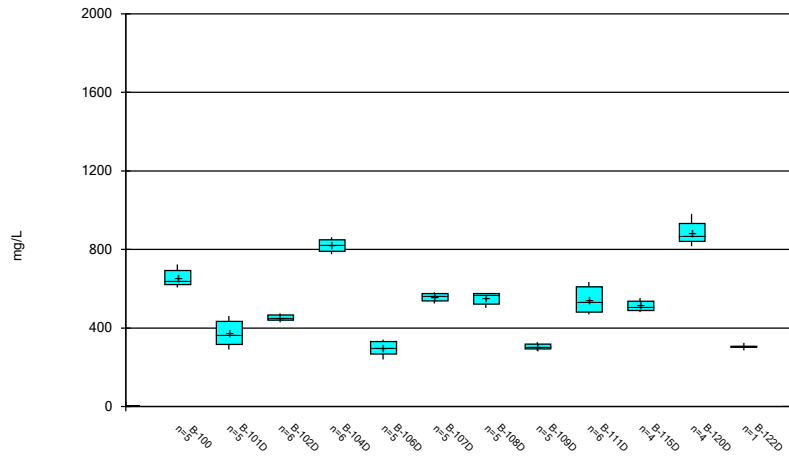
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Box & Whiskers Plot



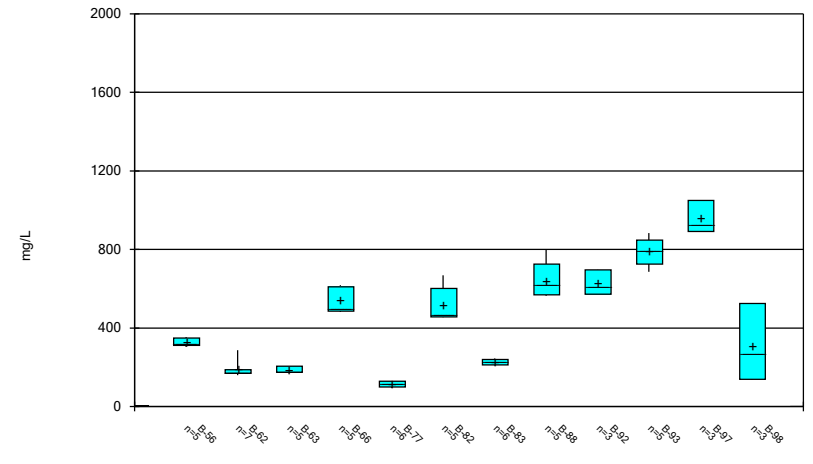
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



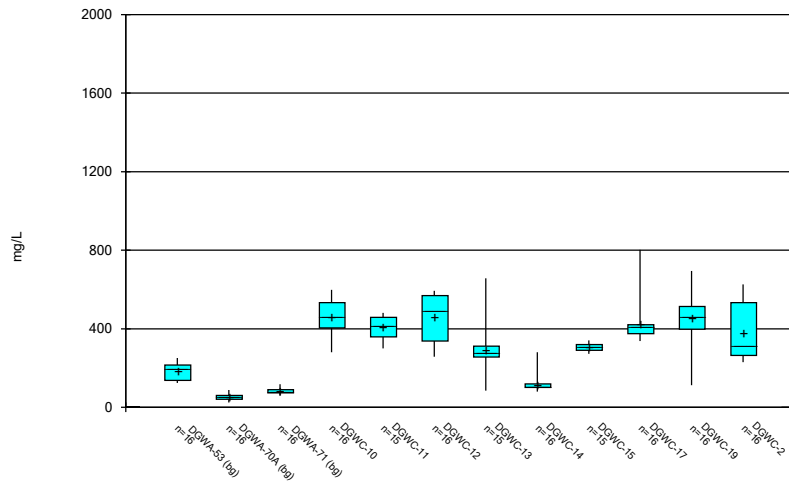
Constituent: Total Dissolved Solids Analysis Run 11/17/2022 10:53 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



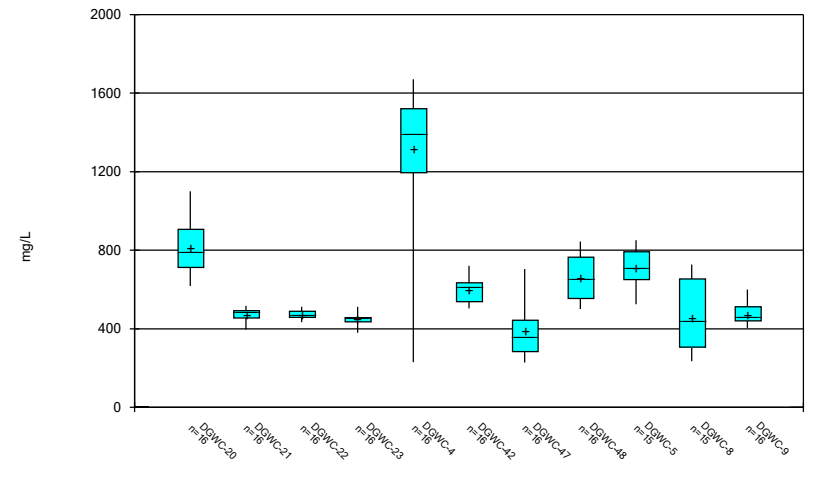
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 11/17/2022 10:53 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 11/17/2022 10:53 PM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP



FIGURE C.

# Outlier Summary

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/16/2022, 12:38 AM

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	DGWC-5 Barium (mg/L)	DGWC-12 Chloride (mg/L)	DGWA-70A Chromium (mg/L)	DGWA-70A Fluoride (mg/L)	DGWC-15 Lithium (mg/L)	DGWC-14 Sulfate (mg/L)	DGWA-53 Total Dissolved Solids (mg/L)	DGWC-15 Total Dissolved Solids (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 10/19/2022, 2:45 AM

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	9/15/2022	0.42	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-11	0.13	n/a	9/15/2022	1.7	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-12	0.13	n/a	9/15/2022	3.3	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-13	0.13	n/a	9/15/2022	0.69	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-15	0.13	n/a	9/13/2022	1.5	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-17	0.13	n/a	9/14/2022	0.87	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-19	0.13	n/a	9/14/2022	2.4	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-2	0.13	n/a	9/20/2022	0.42	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-20	0.13	n/a	9/15/2022	4.2	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-21	0.13	n/a	9/15/2022	6.7	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-22	0.13	n/a	9/16/2022	4.2	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-23	0.13	n/a	9/20/2022	4.6	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-4	0.13	n/a	9/19/2022	4.8	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-42	0.13	n/a	9/13/2022	1.1	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-47	0.13	n/a	9/13/2022	0.18	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-48	0.13	n/a	9/13/2022	0.61	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-5	0.13	n/a	9/14/2022	5	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-8	0.13	n/a	9/15/2022	0.83	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-9	0.13	n/a	9/19/2022	0.8	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-10	40.3	n/a	9/15/2022	64.4	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-11	40.3	n/a	9/15/2022	66.6	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-12	40.3	n/a	9/15/2022	41.5	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-19	40.3	n/a	9/14/2022	105	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-20	40.3	n/a	9/15/2022	70.1	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-21	40.3	n/a	9/15/2022	82.2	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-22	40.3	n/a	9/16/2022	66.2	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-23	40.3	n/a	9/20/2022	90	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-4	40.3	n/a	9/19/2022	376	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-48	40.3	n/a	9/13/2022	65.3	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-5	40.3	n/a	9/14/2022	117	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-9	40.3	n/a	9/19/2022	45.1	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-11	8.2	n/a	9/15/2022	12.1	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-13	8.2	n/a	9/15/2022	13.7	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-15	8.2	n/a	9/13/2022	21.9	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-17	8.2	n/a	9/14/2022	19	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-19	8.2	n/a	9/14/2022	18.7	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-20	8.2	n/a	9/15/2022	26.2	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-21	8.2	n/a	9/15/2022	17.6	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-22	8.2	n/a	9/16/2022	18	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-23	8.2	n/a	9/20/2022	11.6	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-4	8.2	n/a	9/19/2022	11.2	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-42	8.2	n/a	9/13/2022	18.7	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-48	8.2	n/a	9/13/2022	8.9	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-5	8.2	n/a	9/14/2022	11.2	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-8	8.2	n/a	9/15/2022	8.3	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-9	8.2	n/a	9/19/2022	13.2	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-10	0.42	n/a	9/15/2022	0.84	Yes	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-20	0.42	n/a	9/15/2022	0.69	Yes	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-47	0.42	n/a	9/13/2022	0.47	Yes	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-48	0.42	n/a	9/13/2022	0.43	Yes	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-9	0.42	n/a	9/19/2022	0.8	Yes	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-10	6.669	5.189	9/15/2022	4.87	Yes	56	1.772	0.05718	0	None	ln(x)	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-17	6.669	5.189	9/14/2022	5.08	Yes	56	1.772	0.05718	0	None	ln(x)	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-19	6.669	5.189	9/14/2022	4.81	Yes	56	1.772	0.05718	0	None	ln(x)	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-20	6.669	5.189	9/15/2022	4.58	Yes	56	1.772	0.05718	0	None	ln(x)	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-42	6.669	5.189	9/13/2022	5.04	Yes	56	1.772	0.05718	0	None	ln(x)	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-47	6.669	5.189	9/13/2022	4.15	Yes	56	1.772	0.05718	0	None	ln(x)	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-48	6.669	5.189	9/13/2022	4.25	Yes	56	1.772	0.05718	0	None	ln(x)	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-5	6.669	5.189	9/14/2022	4.75	Yes	56	1.772	0.05718	0	None	ln(x)	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-9	6.669	5.189	9/19/2022	3.98	Yes	56	1.772	0.05718	0	None	ln(x)	0.0001881	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-10	49	n/a	9/15/2022	229	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-11	49	n/a	9/15/2022	287	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-12	49	n/a	9/15/2022	191	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-13	49	n/a	9/15/2022	133	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-15	49	n/a	9/13/2022	145	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-17	49	n/a	9/14/2022	268	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-19	49	n/a	9/14/2022	388	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-2	49	n/a	9/20/2022	98.4	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2

# Interwell Prediction Limits - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 10/19/2022, 2:45 AM

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-20	49	n/a	9/15/2022	462	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-21	49	n/a	9/15/2022	268	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-22	49	n/a	9/16/2022	265	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-23	49	n/a	9/20/2022	242	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-4	49	n/a	9/19/2022	925	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-42	49	n/a	9/13/2022	326	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-47	49	n/a	9/13/2022	150	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-48	49	n/a	9/13/2022	309	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-5	49	n/a	9/14/2022	505	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-8	49	n/a	9/15/2022	134	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-9	49	n/a	9/19/2022	274	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-11	285.8	n/a	9/15/2022	414	Yes	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-12	285.8	n/a	9/15/2022	377	Yes	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-15	285.8	n/a	9/13/2022	289	Yes	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-17	285.8	n/a	9/14/2022	434	Yes	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-19	285.8	n/a	9/14/2022	572	Yes	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-20	285.8	n/a	9/15/2022	618	Yes	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-21	285.8	n/a	9/15/2022	440	Yes	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-22	285.8	n/a	9/16/2022	462	Yes	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-23	285.8	n/a	9/20/2022	511	Yes	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-4	285.8	n/a	9/19/2022	1670	Yes	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-42	285.8	n/a	9/13/2022	540	Yes	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-48	285.8	n/a	9/13/2022	527	Yes	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-5	285.8	n/a	9/14/2022	850	Yes	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-9	285.8	n/a	9/19/2022	456	Yes	48	4.543	0.9224	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 10/19/2022, 2:45 AM

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	9/15/2022	0.42	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-11	0.13	n/a	9/15/2022	1.7	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-12	0.13	n/a	9/15/2022	3.3	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-13	0.13	n/a	9/15/2022	0.69	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-14	0.13	n/a	9/13/2022	0.091	No	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-15	0.13	n/a	9/13/2022	1.5	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-17	0.13	n/a	9/14/2022	0.87	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-19	0.13	n/a	9/14/2022	2.4	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-2	0.13	n/a	9/20/2022	0.42	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-20	0.13	n/a	9/15/2022	4.2	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-21	0.13	n/a	9/15/2022	6.7	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-22	0.13	n/a	9/16/2022	4.2	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-23	0.13	n/a	9/20/2022	4.6	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-4	0.13	n/a	9/19/2022	4.8	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-42	0.13	n/a	9/13/2022	1.1	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-47	0.13	n/a	9/13/2022	0.18	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-48	0.13	n/a	9/13/2022	0.61	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-5	0.13	n/a	9/14/2022	5	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-8	0.13	n/a	9/15/2022	0.83	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-9	0.13	n/a	9/19/2022	0.8	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-10	40.3	n/a	9/15/2022	64.4	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-11	40.3	n/a	9/15/2022	66.6	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-12	40.3	n/a	9/15/2022	41.5	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-13	40.3	n/a	9/15/2022	36.7	No	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-14	40.3	n/a	9/13/2022	11.2	No	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-15	40.3	n/a	9/13/2022	34.4	No	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-17	40.3	n/a	9/14/2022	16.4	No	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-19	40.3	n/a	9/14/2022	105	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-2	40.3	n/a	9/20/2022	37.8	No	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-20	40.3	n/a	9/15/2022	70.1	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-21	40.3	n/a	9/15/2022	82.2	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-22	40.3	n/a	9/16/2022	66.2	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-23	40.3	n/a	9/20/2022	90	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-4	40.3	n/a	9/19/2022	376	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-42	40.3	n/a	9/13/2022	34.2	No	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-47	40.3	n/a	9/13/2022	24.8	No	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-48	40.3	n/a	9/13/2022	65.3	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-5	40.3	n/a	9/14/2022	117	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-8	40.3	n/a	9/15/2022	29.3	No	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-9	40.3	n/a	9/19/2022	45.1	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-10	8.2	n/a	9/15/2022	8.2	No	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-11	8.2	n/a	9/15/2022	12.1	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-12	8.2	n/a	9/15/2022	8.2	No	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-13	8.2	n/a	9/15/2022	13.7	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-14	8.2	n/a	9/13/2022	3.5	No	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-15	8.2	n/a	9/13/2022	21.9	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-17	8.2	n/a	9/14/2022	19	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-19	8.2	n/a	9/14/2022	18.7	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-2	8.2	n/a	9/20/2022	2	No	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-20	8.2	n/a	9/15/2022	26.2	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-21	8.2	n/a	9/15/2022	17.6	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-22	8.2	n/a	9/16/2022	18	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-23	8.2	n/a	9/20/2022	11.6	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-4	8.2	n/a	9/19/2022	11.2	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-42	8.2	n/a	9/13/2022	18.7	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-47	8.2	n/a	9/13/2022	3.3	No	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-48	8.2	n/a	9/13/2022	8.9	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-5	8.2	n/a	9/14/2022	11.2	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-8	8.2	n/a	9/15/2022	8.3	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-9	8.2	n/a	9/19/2022	13.2	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-10	0.42	n/a	9/15/2022	0.84	Yes	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-11	0.42	n/a	9/15/2022	0.064J	No	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-12	0.42	n/a	9/15/2022	0.078J	No	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-13	0.42	n/a	9/15/2022	0.095J	No	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-14	0.42	n/a	9/13/2022	0.059J	No	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-15	0.42	n/a	9/13/2022	0.065J	No	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-17	0.42	n/a	9/14/2022	0.1	No	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-19	0.42	n/a	9/14/2022	0.18	No	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2

# Interwell Prediction Limits - All Results

Plant McDonough    Client: Southern Company    Data: McDonough AP    Printed 10/19/2022, 2:45 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride, total (mg/L)	DGWC-2	0.42	n/a	9/20/2022	0.076J	No	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2
<b>Fluoride, total (mg/L)</b>	<b>DGWC-20</b>	<b>0.42</b>	<b>n/a</b>	<b>9/15/2022</b>	<b>0.69</b>	<b>Yes</b>	<b>54</b>	<b>n/a</b>	<b>n/a</b>	<b>50</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0006272</b>	<b>NP Inter (normality) 1 of 2</b>
Fluoride, total (mg/L)	DGWC-21	0.42	n/a	9/15/2022	0.087J	No	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-22	0.42	n/a	9/16/2022	0.068J	No	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-23	0.42	n/a	9/20/2022	0.11	No	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-4	0.42	n/a	9/19/2022	0.061J	No	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-42	0.42	n/a	9/13/2022	0.1ND	No	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2
<b>Fluoride, total (mg/L)</b>	<b>DGWC-47</b>	<b>0.42</b>	<b>n/a</b>	<b>9/13/2022</b>	<b>0.47</b>	<b>Yes</b>	<b>54</b>	<b>n/a</b>	<b>n/a</b>	<b>50</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0006272</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Fluoride, total (mg/L)</b>	<b>DGWC-48</b>	<b>0.42</b>	<b>n/a</b>	<b>9/13/2022</b>	<b>0.43</b>	<b>Yes</b>	<b>54</b>	<b>n/a</b>	<b>n/a</b>	<b>50</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0006272</b>	<b>NP Inter (normality) 1 of 2</b>
Fluoride, total (mg/L)	DGWC-5	0.42	n/a	9/14/2022	0.27	No	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-8	0.42	n/a	9/15/2022	0.077J	No	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2
<b>Fluoride, total (mg/L)</b>	<b>DGWC-9</b>	<b>0.42</b>	<b>n/a</b>	<b>9/19/2022</b>	<b>0.8</b>	<b>Yes</b>	<b>54</b>	<b>n/a</b>	<b>n/a</b>	<b>50</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0006272</b>	<b>NP Inter (normality) 1 of 2</b>
<b>pH, Field (SU)</b>	<b>DGWC-10</b>	<b>6.669</b>	<b>5.189</b>	<b>9/15/2022</b>	<b>4.87</b>	<b>Yes</b>	<b>56</b>	<b>1.772</b>	<b>0.05718</b>	<b>0</b>	<b>None</b>	<b>ln(x)</b>	<b>0.0001881</b>	<b>Param Inter 1 of 2</b>
pH, Field (SU)	DGWC-11	6.669	5.189	9/15/2022	5.52	No	56	1.772	0.05718	0	None	ln(x)	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-12	6.669	5.189	9/15/2022	5.75	No	56	1.772	0.05718	0	None	ln(x)	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-13	6.669	5.189	9/15/2022	5.56	No	56	1.772	0.05718	0	None	ln(x)	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-14	6.669	5.189	9/13/2022	5.71	No	56	1.772	0.05718	0	None	ln(x)	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-15	6.669	5.189	9/13/2022	5.82	No	56	1.772	0.05718	0	None	ln(x)	0.0001881	Param Inter 1 of 2
<b>pH, Field (SU)</b>	<b>DGWC-17</b>	<b>6.669</b>	<b>5.189</b>	<b>9/14/2022</b>	<b>5.08</b>	<b>Yes</b>	<b>56</b>	<b>1.772</b>	<b>0.05718</b>	<b>0</b>	<b>None</b>	<b>ln(x)</b>	<b>0.0001881</b>	<b>Param Inter 1 of 2</b>
<b>pH, Field (SU)</b>	<b>DGWC-19</b>	<b>6.669</b>	<b>5.189</b>	<b>9/14/2022</b>	<b>4.81</b>	<b>Yes</b>	<b>56</b>	<b>1.772</b>	<b>0.05718</b>	<b>0</b>	<b>None</b>	<b>ln(x)</b>	<b>0.0001881</b>	<b>Param Inter 1 of 2</b>
pH, Field (SU)	DGWC-2	6.669	5.189	9/20/2022	5.98	No	56	1.772	0.05718	0	None	ln(x)	0.0001881	Param Inter 1 of 2
<b>pH, Field (SU)</b>	<b>DGWC-20</b>	<b>6.669</b>	<b>5.189</b>	<b>9/15/2022</b>	<b>4.58</b>	<b>Yes</b>	<b>56</b>	<b>1.772</b>	<b>0.05718</b>	<b>0</b>	<b>None</b>	<b>ln(x)</b>	<b>0.0001881</b>	<b>Param Inter 1 of 2</b>
pH, Field (SU)	DGWC-21	6.669	5.189	9/15/2022	5.69	No	56	1.772	0.05718	0	None	ln(x)	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-22	6.669	5.189	9/16/2022	5.62	No	56	1.772	0.05718	0	None	ln(x)	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-23	6.669	5.189	9/20/2022	6	No	56	1.772	0.05718	0	None	ln(x)	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-4	6.669	5.189	9/19/2022	5.76	No	56	1.772	0.05718	0	None	ln(x)	0.0001881	Param Inter 1 of 2
<b>pH, Field (SU)</b>	<b>DGWC-42</b>	<b>6.669</b>	<b>5.189</b>	<b>9/13/2022</b>	<b>5.04</b>	<b>Yes</b>	<b>56</b>	<b>1.772</b>	<b>0.05718</b>	<b>0</b>	<b>None</b>	<b>ln(x)</b>	<b>0.0001881</b>	<b>Param Inter 1 of 2</b>
<b>pH, Field (SU)</b>	<b>DGWC-47</b>	<b>6.669</b>	<b>5.189</b>	<b>9/13/2022</b>	<b>4.15</b>	<b>Yes</b>	<b>56</b>	<b>1.772</b>	<b>0.05718</b>	<b>0</b>	<b>None</b>	<b>ln(x)</b>	<b>0.0001881</b>	<b>Param Inter 1 of 2</b>
<b>pH, Field (SU)</b>	<b>DGWC-48</b>	<b>6.669</b>	<b>5.189</b>	<b>9/13/2022</b>	<b>4.25</b>	<b>Yes</b>	<b>56</b>	<b>1.772</b>	<b>0.05718</b>	<b>0</b>	<b>None</b>	<b>ln(x)</b>	<b>0.0001881</b>	<b>Param Inter 1 of 2</b>
<b>pH, Field (SU)</b>	<b>DGWC-5</b>	<b>6.669</b>	<b>5.189</b>	<b>9/14/2022</b>	<b>4.75</b>	<b>Yes</b>	<b>56</b>	<b>1.772</b>	<b>0.05718</b>	<b>0</b>	<b>None</b>	<b>ln(x)</b>	<b>0.0001881</b>	<b>Param Inter 1 of 2</b>
pH, Field (SU)	DGWC-8	6.669	5.189	9/15/2022	5.2	No	56	1.772	0.05718	0	None	ln(x)	0.0001881	Param Inter 1 of 2
<b>pH, Field (SU)</b>	<b>DGWC-9</b>	<b>6.669</b>	<b>5.189</b>	<b>9/19/2022</b>	<b>3.98</b>	<b>Yes</b>	<b>56</b>	<b>1.772</b>	<b>0.05718</b>	<b>0</b>	<b>None</b>	<b>ln(x)</b>	<b>0.0001881</b>	<b>Param Inter 1 of 2</b>
Sulfate as SO4 (mg/L)	DGWC-10	49	n/a	9/15/2022	229	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-11	49	n/a	9/15/2022	287	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-12	49	n/a	9/15/2022	191	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-13	49	n/a	9/15/2022	133	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-14	49	n/a	9/13/2022	41.2	No	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-15	49	n/a	9/13/2022	145	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-17	49	n/a	9/14/2022	268	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-19	49	n/a	9/14/2022	388	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-2	49	n/a	9/20/2022	98.4	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-20	49	n/a	9/15/2022	462	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-21	49	n/a	9/15/2022	268	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-22	49	n/a	9/16/2022	265	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-23	49	n/a	9/20/2022	242	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-4	49	n/a	9/19/2022	925	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-42	49	n/a	9/13/2022	326	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-47	49	n/a	9/13/2022	150	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-48	49	n/a	9/13/2022	309	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-5	49	n/a	9/14/2022	505	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-8	49	n/a	9/15/2022	134	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-9	49	n/a	9/19/2022	274	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-10	285.8	n/a	9/15/2022	280	No	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-11	285.8	n/a	9/15/2022	414	Yes	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-12	285.8	n/a	9/15/2022	377	Yes	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-13	285.8	n/a	9/15/2022	216	No	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-14	285.8	n/a	9/13/2022	80	No	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-15	285.8	n/a	9/13/2022	289	Yes	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-17	285.8	n/a	9/14/2022	434	Yes	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-19	285.8	n/a	9/14/2022	572	Yes	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-2	285.8	n/a	9/20/2022	230	No	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-20	285.8	n/a	9/15/2022	618	Yes	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-21	285.8	n/a	9/15/2022	440	Yes	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-22	285.8	n/a	9/16/2022	462	Yes	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-23	285.8	n/a	9/20/2022	511	Yes	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-4	285.8	n/a	9/19/2022	1670	Yes	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-42	285.8	n/a	9/13/2022	540	Yes	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-47	285.8	n/a	9/13/2022	277	No	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2

# Interwell Prediction Limits - All Results

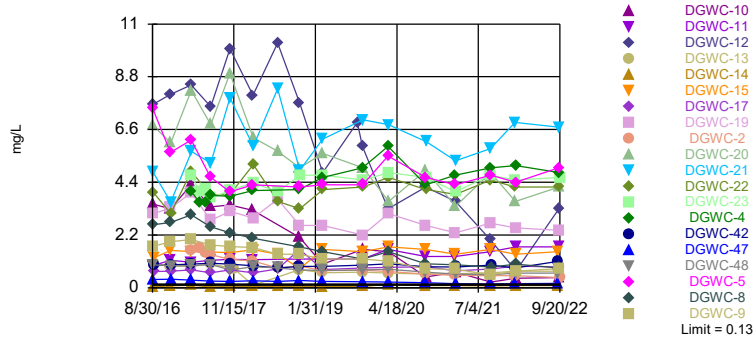
Plant McDonough Client: Southern Company Data: McDonough AP Printed 10/19/2022, 2:45 AM

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-48	285.8	n/a	9/13/2022	527	Yes	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-5	285.8	n/a	9/14/2022	850	Yes	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-8	285.8	n/a	9/15/2022	234	No	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-9	285.8	n/a	9/19/2022	456	Yes	48	4.543	0.9224	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



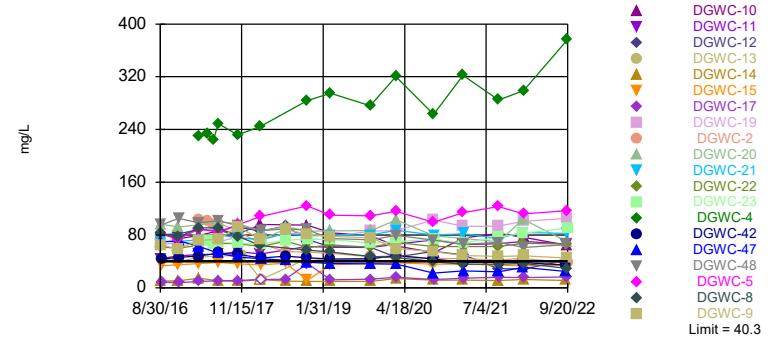
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 47 background values. 27.66% NDs. Annual per-constituent alpha = 0.03204. Individual comparison alpha = 0.0008139 (1 of 2). Comparing 20 points to limit.

Constituent: Boron, total Analysis Run 10/19/2022 2:41 AM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

Hollow symbols indicate censored values.

Exceeds Limit: DGWC-10, DGWC-11, DGWC-12, DGWC-19, DGWC-20, DGWC-21, DGWC-22, DGWC-23, DGWC-4, DGWC-48...

Prediction Limit  
Interwell Non-parametric

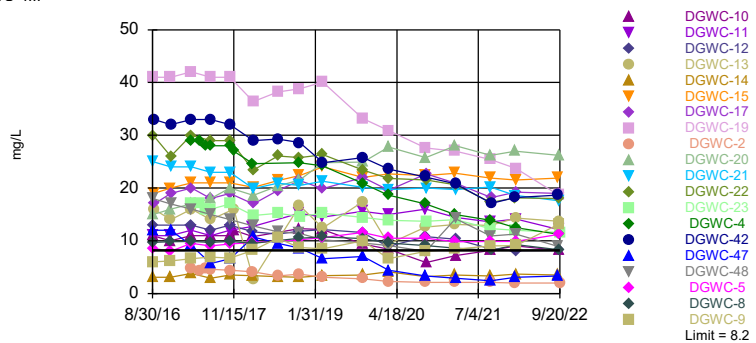


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 47 background values. 4.255% NDs. Annual per-constituent alpha = 0.03204. Individual comparison alpha = 0.0008139 (1 of 2). Comparing 20 points to limit.

Constituent: Calcium, total Analysis Run 10/19/2022 2:41 AM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

Exceeds Limit: DGWC-11, DGWC-13, DGWC-15, DGWC-17, DGWC-19, DGWC-20, DGWC-21, DGWC-22, DGWC-23, DGWC-4...

Prediction Limit  
Interwell Non-parametric



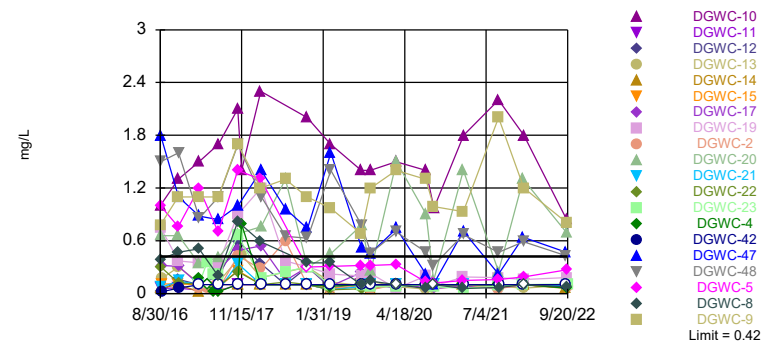
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 49 background values. 50% NDs. Annual per-constituent alpha = 0.02932. Individual comparison alpha = 0.0007437 (1 of 2). Comparing 20 points to limit.

Constituent: Chloride, Total Analysis Run 10/19/2022 2:41 AM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

Hollow symbols indicate censored values.

Exceeds Limit: DGWC-10, DGWC-20, DGWC-47, DGWC-48, DGWC-9

Prediction Limit  
Interwell Non-parametric

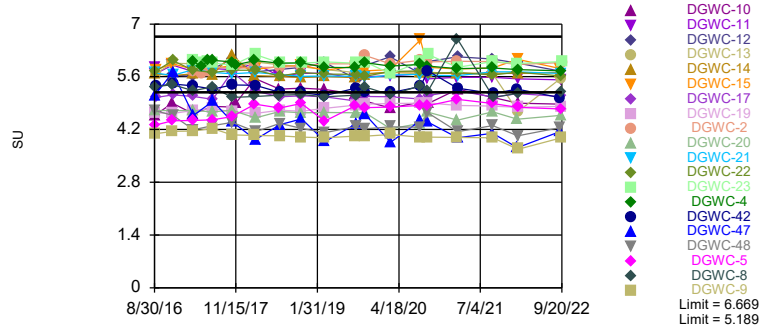


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 54 background values. 50% NDs. Annual per-constituent alpha = 0.02478. Individual comparison alpha = 0.0006272 (1 of 2). Comparing 20 points to limit.

Constituent: Fluoride, total Analysis Run 10/19/2022 2:41 AM View: Constituents View  
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-9

Prediction Limit  
Interwell Parametric

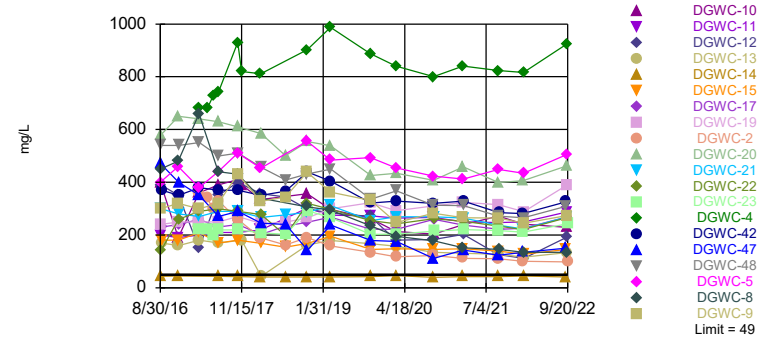


Background Data Summary (based on natural log transformation): Mean=1.772, Std. Dev.=0.05718, n=56. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9444, critical = 0.942. Kappa = 2.194 (c=7, w=20, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0001881. Comparing 20 points to limit.

Constituent: pH, Field Analysis Run 10/19/2022 2:41 AM View: Constituents View  
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-2, DGWC-20, DGWC-21...

Prediction Limit  
Interwell Non-parametric

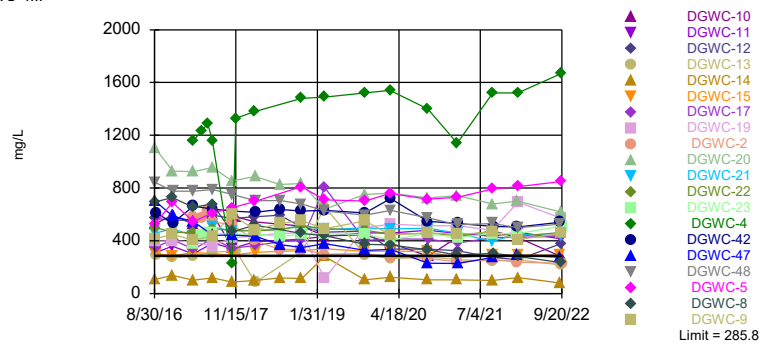


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 49 background values. 14.29% NDs. Annual per-constituent alpha = 0.02932. Individual comparison alpha = 0.0007437 (1 of 2). Comparing 20 points to limit.

Constituent: Sulfate as SO4 Analysis Run 10/19/2022 2:41 AM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

Exceeds Limit: DGWC-11, DGWC-12, 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=4.543, Std. Dev.=0.9224, n=48. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9399, critical = 0.929. Kappa = 2.216 (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 10/19/2022 2:41 AM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP









# Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 10/19/2022 2:45 AM View: Constituents View  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWA-70A (bg)	DGWC-4	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	0.0097 (J)	0.0067 (J)	4.01		
3/29/2017					
3/30/2017				1.56	4.68
3/31/2017					
5/11/2017				1.65	
5/12/2017	0.0082 (J)		3.58		4.03
5/15/2017		0.0073 (J)			
6/15/2017		<0.04	3.58	1.44	4.11
6/16/2017	0.0085 (J)				
7/11/2017	0.0077 (J)	<0.04	3.85	1.39	
7/12/2017					3.74
7/13/2017					
8/8/2017		<0.04			
10/24/2017	0.0083 (J)	0.0082 (J)	3.82	1.18	
10/25/2017					
10/26/2017					4.07
11/15/2017					
2/27/2018	0.0069 (J)	0.0062 (J)	4.06	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	<0.04 (J)	<0.04 (J)	4.1	0.9	
11/7/2018					
11/8/2018					4.7
3/12/2019	0.0068 (J)	0.0073 (J)	4.6	0.72	
3/13/2019					
3/14/2019					4.7
9/17/2019					
10/15/2019	0.0054 (J)	<0.04	5		
10/16/2019					
10/17/2019				0.73	
10/18/2019					4.5
3/2/2020	0.01 (J)	0.0055 (J)	5.9		
3/3/2020				0.68	
3/4/2020					4.8
3/9/2020					
9/22/2020	<0.04	<0.04	4.3		
9/23/2020				0.57	
9/24/2020					4.6
3/1/2021	0.0054 (J)	<0.04	4.7		

# Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 10/19/2022 2:45 AM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWA-70A (bg)	DGWC-4	DGWC-2	DGWC-23
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		0.51	4.7
9/10/2021			5		
9/13/2021					
1/18/2022	0.015 (J)	0.024 (J)			
1/20/2022				0.5	4.5
1/21/2022					
1/24/2022			5.1		
1/25/2022					
1/26/2022					
1/28/2022					
9/7/2022	<0.04	<0.04			
9/8/2022					
9/13/2022					
9/14/2022					
9/15/2022					
9/16/2022					
9/19/2022			4.8		
9/20/2022				0.42	4.6



# Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 10/19/2022 2:45 AM View: Constituents View

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	82.7	64.9							
8/31/2016			81.7	82.6	44.2	9.95			
9/1/2016							65.6	95.1	80.6
9/2/2016									
9/6/2016									
9/7/2016									
12/6/2016	76.8	59.3	74.2	73.9	48.3	10.4			
12/7/2016							68.3		82.1
12/8/2016								105	
3/28/2017		71.6		89.1					
3/29/2017	90.5		79.5		50.5	14.4	68		88.3
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			86.3		50.8	10.5	70		87
7/13/2017								102	
8/8/2017									
10/24/2017	78.1	92.5	81.5		55				
10/25/2017				95.6		9.67	77		92.1
10/26/2017								94	
11/15/2017									
2/27/2018	64.2	73.1	96.2	108	51.4	<25			85.6
2/28/2018							72		
3/1/2018									
3/2/2018								86.6	
3/8/2018									
7/11/2018		88.5				9.9	82.7		93.6
7/12/2018								89.1	
11/6/2018	57	81.1	94.8	124	62.6				
11/7/2018						9.7	81.7	88	73.3
11/8/2018									
3/12/2019	54.3	78.1	83.5	110	61.4				62.1
3/13/2019						9.7	76.9		
3/14/2019								74.6	
10/15/2019			79.1		61.2				61.4
10/16/2019	47.3			109		9.4	85.7		
10/17/2019		75.6							
10/18/2019								72.7	
3/2/2020				116	65.8				46.5
3/3/2020	46	59.5	63.6			14	86.8		
3/4/2020								79.7	
3/9/2020									
9/22/2020		54.7		99.2	72.7	11.6	103		55.4
9/23/2020	39.3							72.2	
9/24/2020			53.1						
3/1/2021									
3/2/2021	35.6	48.8		114	65.3	11.4	93.2		



# Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 10/19/2022 2:45 AM View: Constituents View  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-47	DGWC-20	DGWC-21	DGWC-22	DGWC-15	DGWC-13	DGWC-42	DGWC-17	DGWC-4
8/30/2016									
8/31/2016									
9/1/2016	69.3								
9/2/2016		96.3	70.2	61.6					
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		70.1	60.1			45.8	7.92	
3/28/2017									229
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									
5/12/2017									233
5/15/2017									
6/15/2017									224
6/16/2017									
7/11/2017									249
7/12/2017		100	80.4		38.4	47.8		10.4	
7/13/2017	52.5			67.2			52.3		
8/8/2017									
10/24/2017									232
10/25/2017		97.3	75.6	66.8	36.2		50.9	10.9	
10/26/2017	46.7								
11/15/2017						49.3			
2/27/2018									245
2/28/2018		86.3	73.2	62.3	35	<25	45.1	<25	
3/1/2018	44.2								
3/2/2018									
3/8/2018									
7/11/2018		92.4	82.3		37.5		47.8	13 (J)	
7/12/2018	41.6			71					
11/6/2018									284
11/7/2018	38.6	85.9	78.5	60.9	11.4	44.8	45.5	37	
11/8/2018									
3/12/2019									295
3/13/2019		86.4	79.9			42.1		11.9 (J)	
3/14/2019	36.6			64.8	34.7		43.5		
10/15/2019									276
10/16/2019						43.8			
10/17/2019	36.2	86.9	79.8		37		44.1		
10/18/2019				61.7				12.9	
3/2/2020									320
3/3/2020			87.4	68.7	37.8	49.3			
3/4/2020	36	103					48.8	15.8	
3/9/2020									
9/22/2020		79.2					43.8		263
9/23/2020	22.3				35.6	39			
9/24/2020			80	62.6				12.7	
3/1/2021									322
3/2/2021		74.7			36	40.5			



# Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 10/19/2022 2:45 AM View: Constituents View

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 10/19/2022 2:45 AM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

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	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					
1/18/2022		6.1	6.6		
1/20/2022				82.7	44.6
1/21/2022					
1/24/2022					
1/25/2022					
1/26/2022					
1/28/2022	19.5				
9/7/2022		5.9	6.4		
9/8/2022	17.2				
9/13/2022					
9/14/2022					
9/15/2022					
9/16/2022					
9/19/2022					
9/20/2022				90	37.8

# Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 10/19/2022 2:45 AM View: Constituents View  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	DGWC-5	DGWC-10	DGWC-11	DGWC-14	DGWC-12	DGWC-19	DGWC-48
8/30/2016	9.7	6							
8/31/2016			8.6	11	11	3.1			
9/1/2016							13	41	18
9/2/2016									
9/6/2016									
9/7/2016									
12/6/2016	9.8	6.2	8	10	11	3.1			
12/7/2016							20 (O)	41	
12/8/2016									17
3/28/2017		6.6	9.5						
3/29/2017	9.9			11	12	3.8	13	42	
3/30/2017									16
3/31/2017									
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				11	11	2.9	12	41	
7/13/2017									15
8/8/2017									
10/24/2017	9.9	6.7		11	12				
10/25/2017			9.4			3.5	13	41	
10/26/2017									14
11/15/2017				12					
2/27/2018	9.5	8.2	9.7	10.8	12.7	3.4	11.7		
2/28/2018								36.4	
3/1/2018									
3/2/2018									12.8
3/8/2018									
7/11/2018		10.5				3.2	11.3	38.2	
7/12/2018									11.7
11/6/2018	10.5	8.7	10.2	12.3	15.2				
11/7/2018						3.1	11.8	38.8	11.4
11/8/2018									
3/12/2019	10.7	8.5	10.6	12.1	14.5		12.1		
3/13/2019						3.4		40.1	
3/14/2019									10.2
10/15/2019				9.4	15.6		11.6		
10/16/2019	10.4		11.6			3.5		33.2	
10/17/2019		10							
10/18/2019									9.6
3/2/2020			10.5		15		8.9		
3/3/2020	9.6	6.6		8.4		4.1		30.9	
3/4/2020									9.1
3/9/2020									
9/22/2020		8	10.5		16	3.2	10.8	27.6	
9/23/2020	9.1								8
9/24/2020				5.9					
3/1/2021									
3/2/2021	8.6	8.4	9.8		14.4	3.5		27	





# Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 10/19/2022 2:45 AM View: Constituents View  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-47	DGWC-20	DGWC-21	DGWC-22	DGWC-13	DGWC-15	DGWC-17	DGWC-42	DGWC-4
8/30/2016									
8/31/2016									
9/1/2016	12								
9/2/2016		15	25	30					
9/6/2016					16	19			
9/7/2016							17	33	
12/6/2016									
12/7/2016		16			14	20			
12/8/2016	12		24	26			19	32	
3/28/2017									29
3/29/2017		17		30					
3/30/2017			24		16	21	20		
3/31/2017	9.1							33	
5/11/2017									
5/12/2017									29
5/15/2017									
6/15/2017									28
6/16/2017									
7/11/2017									28
7/12/2017		18	23		14	21	18		
7/13/2017	5.7			29				33	
8/8/2017									
10/24/2017									28
10/25/2017		20	23	29		21	19	32	
10/26/2017	6.6								
11/15/2017					16				27
2/27/2018									24.6
2/28/2018		18.6	19.9	23.4	2.7	20.1	17	29	
3/1/2018	10.7								
3/2/2018									
3/8/2018									
7/11/2018		20.4	20.9			21.4	19.5	29.3	
7/12/2018	9.5			26.1					
11/6/2018									24.8
11/7/2018	8.6	21.5	20.5	25.8	16.7	22.4	21.4	28.6	
11/8/2018									
3/12/2019									24.2
3/13/2019		24.8	21.3		12.4		19.9		
3/14/2019	6.6			26.3		24		24.8	
10/15/2019									20.9
10/16/2019					17.4				
10/17/2019	7	24.9	20.1			22		25.8	
10/18/2019				23.4			22		
3/2/2020									18.7
3/3/2020			19.7	21.8	9.4	22.7			
3/4/2020	4.4	27.8					19.6	23.6	
3/9/2020									
9/22/2020		25.8						22.1	17
9/23/2020	3.3				12.6	22.4			
9/24/2020			20	21.5			22.7		
3/1/2021									15
3/2/2021		28			13.1	22.8			



# Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 10/19/2022 2:45 AM View: Constituents View  
 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	3.7	3.8	3.6		
3/29/2017					
3/30/2017				4.8	17
3/31/2017					
5/11/2017	2.3			4.4	
5/12/2017			3.8		17
5/15/2017		2.2			
6/15/2017	2.6	2		4.8	16
6/16/2017			3.4		
7/11/2017		2.1	3.1	4.6	
7/12/2017	2.3				16
7/13/2017					
8/8/2017		2.2			
10/24/2017	2.7	2.4	3.2	4.4	
10/25/2017					
10/26/2017					17
11/15/2017	2.2		3.1		
2/27/2018		2.5	3.2	4.1	
2/28/2018					
3/1/2018					14.8
3/2/2018					
3/8/2018	2.4				
7/11/2018				3.3	
7/12/2018	2.2				15.2
11/6/2018		2.3	2.6	3.7	
11/7/2018	2.3				
11/8/2018					14.6
3/12/2019		2.5	3.3	3.1	
3/13/2019	3.6				
3/14/2019					15.2
10/15/2019		2.2	3.3		
10/16/2019	2				
10/17/2019				2.8	
10/18/2019					14.4
3/2/2020		1.9	3		
3/3/2020				2.3	
3/4/2020					13.9
3/9/2020	1.8				
9/22/2020	1.6	1.9	5.2		
9/23/2020				2.1	
9/24/2020					13.7
3/1/2021		1.9	3.9		
3/2/2021				2.1	

# Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 10/19/2022 2:45 AM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-2	DGWC-23
3/3/2021					14
3/4/2021					
3/12/2021	2				
9/8/2021			5.9		
9/9/2021	1.8	1.9		2.1	12.3
9/10/2021					
9/13/2021					
1/18/2022		1.9	5.9		
1/20/2022				2	12
1/21/2022					
1/24/2022					
1/25/2022					
1/26/2022					
1/28/2022	1.8				
9/7/2022		2.1	8.2		
9/8/2022	1.6				
9/13/2022					
9/14/2022					
9/15/2022					
9/16/2022					
9/19/2022					
9/20/2022				2	11.6

# Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 10/19/2022 2:45 AM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-9	DGWC-8	DGWC-14	DGWC-10	DGWC-11	DGWC-5	DGWC-48	DGWC-19	DGWC-47
8/30/2016	0.78	0.39							
8/31/2016			0.06 (J)	1	0.06 (J)	1			
9/1/2016							1.5	0.75	1.8
9/2/2016									
9/6/2016									
9/7/2016									
12/6/2016	1.1	0.47	0.1 (J)	1.3	0.06 (J)	0.76			
12/7/2016								0.37	
12/8/2016							1.6		1.1
3/28/2017	1.1					1.2			
3/29/2017		0.51	0.02 (J)	1.5	0.04 (J)			0.35	
3/30/2017							0.86		
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	1.7	0.03 (J)			0.34	
7/13/2017							1.1		0.84
8/8/2017									
10/24/2017	1.7	0.82		2.1	<0.1				
10/25/2017			<0.1			1.4		0.9	
10/26/2017							1.7		1
11/15/2017				1.4					
2/27/2018	1.2	0.59	<0.1	2.3	<0.1	1.3			
2/28/2018								1.2	
3/1/2018									1.4
3/2/2018							1.1		
3/8/2018									
7/11/2018	1.3		<0.1					0.37	
7/12/2018							0.65		0.96
11/6/2018	1.1	0.35		2	<0.1	<0.3 (J)			
11/7/2018			<0.1				0.63	<0.3 (J)	0.74
11/8/2018									
3/12/2019	0.97	0.35		1.7	0.052 (J)	0.31			
3/13/2019			0.042 (J)					0.22 (J)	
3/14/2019							1.4		1.6
8/27/2019	0.68		<0.1	1.4	<0.1	0.32			
8/28/2019		0.098 (J)						0.2	
8/29/2019							0.78		0.52
10/15/2019				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							0.46		
3/2/2020					0.064 (J)	0.33			
3/3/2020	1.4	<0.1	<0.1	1.5				0.056 (J)	
3/4/2020							0.7		0.74
3/9/2020									
8/11/2020	1.3		<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 10/19/2022 2:45 AM View: Constituents View  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-12	DGWC-20	DGWC-21	DGWC-22	DGWC-15	DGWC-13	DGWC-42	DGWC-17	DGWA-71 (bg)
8/30/2016									
8/31/2016									
9/1/2016	0.02 (J)								
9/2/2016		0.66	0.07 (J)	0.3					
9/6/2016					0.11 (J)	0.17 (J)			
9/7/2016							0.02 (J)	0.32	
12/6/2016									
12/7/2016	0.16 (J)	0.66			0.11 (J)	0.3			
12/8/2016			0.14 (J)	0.12 (J)			0.06 (J)	0.31	
3/28/2017									0.06 (J)
3/29/2017	0.1 (J)	0.34		0.11 (J)					
3/30/2017			<0.1		<0.1	0.12 (J)		0.1 (J)	
3/31/2017							<0.1		
5/11/2017									
5/12/2017									<0.1
5/15/2017									
6/15/2017									
6/16/2017									0.008 (J)
7/11/2017									0.007 (J)
7/12/2017	0.2 (J)	0.41	0.04 (J)		0.07 (J)	0.13 (J)		0.27 (J)	
7/13/2017				0.09 (J)			<0.1		
8/8/2017									
10/24/2017									<0.1
10/25/2017	0.6	0.68	0.34	0.25 (J)	0.26 (J)		<0.1	0.49	
10/26/2017									
11/15/2017						0.44			<0.1
2/27/2018	0.34								<0.1
2/28/2018		0.76	<0.1	<0.1	<0.1	0.18	<0.1	0.54	
3/1/2018									
3/2/2018									
3/8/2018									
7/11/2018	<0.1	1.3	<0.1		<0.1		<0.1	0.15 (J)	
7/12/2018				0.13 (J)					
11/6/2018									<0.1
11/7/2018	<0.3 (J)	<0.3 (J)	<0.1	<0.1	<0.1	<0.3 (J)	<0.1	<0.3 (J)	
11/8/2018									
3/12/2019	0.065 (J)								<0.1
3/13/2019		0.45	0.043 (J)			0.13 (J)		0.084 (J)	
3/14/2019				0.042 (J)	0.057 (J)		<0.1		
8/27/2019	<0.1							0.24 (J)	<0.1
8/28/2019					<0.1	0.091 (J)	<0.1		
8/29/2019		0.78	0.079 (J)	0.054 (J)					
10/15/2019	<0.1								<0.1
10/16/2019						0.14 (J)			
10/17/2019		0.26 (J)	<0.1		0.079 (J)		<0.1		
10/18/2019				<0.1				0.086 (J)	
3/2/2020	0.071 (J)								<0.1
3/3/2020			<0.1	<0.1	<0.1	0.078 (J)			
3/4/2020		1.5					<0.1	<0.1	
3/9/2020									
8/11/2020	<0.1								<0.1
8/12/2020						0.051 (J)			





# Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 10/19/2022 2:45 AM View: Constituents View  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWC-4	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)	0.17 (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)	0.02 (J)	0.21 (J)	0.07 (J)	0.02 (J)
6/16/2017					
7/11/2017		0.02 (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)	0.79			
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		0.082 (J)		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
8/12/2020		<0.1			

# Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 10/19/2022 2:45 AM View: Constituents View  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWC-4	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					
9/9/2021	0.099 (J)		0.084 (J)	0.053 (J)	<0.1
9/10/2021		<0.1			
9/13/2021					
1/18/2022					<0.1
1/20/2022			<0.1	<0.1	
1/21/2022					
1/24/2022		<0.1			
1/25/2022					
1/26/2022					
1/28/2022	0.08 (J)				
9/7/2022					0.061 (J)
9/8/2022	0.11				
9/13/2022					
9/14/2022					
9/15/2022					
9/16/2022					
9/19/2022		0.061 (J)			
9/20/2022			0.11	0.076 (J)	









# Prediction Limit

Constituent: pH, Field (SU) Analysis Run 10/19/2022 2:45 AM View: Constituents View  
 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	5.94	6.29			
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	5.86	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 10/19/2022 2:45 AM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWA-53 (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	6.06	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			5.95	5.93	
1/21/2022					
1/24/2022					
1/25/2022					
1/26/2022					
1/28/2022		6.35			
9/7/2022	5.65				5.6
9/8/2022		6.32			
9/13/2022					
9/14/2022					
9/15/2022					
9/16/2022					
9/19/2022					
9/20/2022			6	5.98	



# Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 10/19/2022 2:45 AM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	DGWC-5	DGWC-10	DGWC-11	DGWC-14	DGWC-12	DGWC-19	DGWC-48
8/30/2016	450	300							
8/31/2016			400	400	200	44			
9/1/2016							390	240	540
9/2/2016									
9/6/2016									
9/7/2016									
12/6/2016	480	320	460	190	190	45			
12/7/2016							350	250	
12/8/2016									540
3/28/2017		300	380						
3/29/2017	660			360	200	81 (O)	150	250	
3/30/2017									550
3/31/2017									
5/11/2017									
5/12/2017									
5/15/2017									
6/15/2017									
6/16/2017									
7/11/2017	440	320	440						
7/12/2017				390	210	44	350	250	
7/13/2017									500
8/8/2017									
10/24/2017	430	430		410	210				
10/25/2017			510			42	400	270	
10/26/2017									510
11/15/2017				390					
2/27/2018	340	327	453	335	220	41	356		
2/28/2018								244	
3/1/2018									
3/2/2018									456
3/8/2018									
7/11/2018		344				40.6	344	249	
7/12/2018									409
11/6/2018	307	438	556	356	302				
11/7/2018						41.3	298	266	432
11/8/2018									
3/12/2019	295	362	484	297	275		284		
3/13/2019						41.2		299	
3/14/2019									450
10/15/2019				263	273		270		
10/16/2019	235		493			42.1		323	
10/17/2019		331							
10/18/2019									336
3/2/2020			455		264		181		
3/3/2020	195	247		213		45.5		292	
3/4/2020									368
3/9/2020									
9/22/2020		282	423		267	40.2	183	310	
9/23/2020	178								313
9/24/2020				204					
3/1/2021									
3/2/2021	152	266	412		250	42.6		324	



# Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 10/19/2022 2:45 AM View: Constituents View  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-47	DGWC-20	DGWC-21	DGWC-22	DGWC-13	DGWC-15	DGWC-17	DGWC-42	DGWC-4
8/30/2016									
8/31/2016									
9/1/2016	470								
9/2/2016		580	300	140					
9/6/2016					170	180			
9/7/2016							230	370	
12/6/2016									
12/7/2016		650			160	180			
12/8/2016	400		280	260			240	350	
3/28/2017									680
3/29/2017		640		290					
3/30/2017			270		180	210	260		
3/31/2017	350							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		630	290		170	170	230		
7/13/2017	270			300				370	
8/8/2017									
10/24/2017									930
10/25/2017		610	290	290		180	240	370	
10/26/2017	290								
11/15/2017					180				820
2/27/2018									811
2/28/2018		584	267	278	43.5	168	203	350	
3/1/2018	245								
3/2/2018									
3/8/2018									
7/11/2018		501	277			154	234	366	
7/12/2018	240			197					
11/6/2018									902
11/7/2018	143	554	286	320	162	168	248	439	
11/8/2018									
3/12/2019									987
3/13/2019		539	312		179		268		
3/14/2019	238			297		195		404	
10/15/2019									888
10/16/2019					167				
10/17/2019	179	426	255			146		321	
10/18/2019				254			222		
3/2/2020									840
3/3/2020			269	242	157	148			
3/4/2020	176	434					222	329	
3/9/2020									
9/22/2020		408						320	800
9/23/2020	111				134	146			
9/24/2020			269	262			259		
3/1/2021									840
3/2/2021		458			131	148			



# Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 10/19/2022 2:45 AM View: Constituents View  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-71 (bg)	DGWA-70A (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	49	17	2.7		
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	16		0.86 (J)	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	15	9.6	1.4	260	
10/25/2017					
10/26/2017					220
11/15/2017	3.8	7.8			
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	13.5	6.5	<1		
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 10/19/2022 2:45 AM View: Constituents View  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-71 (bg)	DGWA-70A (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	11.9		<1	110	217
9/10/2021					
9/13/2021					
1/18/2022		6.3	<1		
1/20/2022				101	211
1/21/2022					
1/24/2022					
1/25/2022					
1/26/2022					
1/28/2022	13.1				
9/7/2022		7	<1		
9/8/2022	12				
9/13/2022					
9/14/2022					
9/15/2022					
9/16/2022					
9/19/2022					
9/20/2022				98.4	242

# Prediction Limit

Constituent: T Total Dissolved Solids [TDS] (mg/L) Analysis Run 10/19/2022 2:45 AM View: Constituents View

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: T Total Dissolved Solids [TDS] (mg/L) Analysis Run 10/19/2022 2:45 AM View: Constituents View  
 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: T Total Dissolved Solids [TDS] (mg/L) Analysis Run 10/19/2022 2:45 AM View: Constituents View  
 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: T Total Dissolved Solids [TDS] (mg/L) Analysis Run 10/19/2022 2:45 AM View: Constituents View  
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					
1/18/2022		54	76		
1/20/2022				238	453
1/21/2022					
1/24/2022					
1/25/2022					
1/26/2022					
1/28/2022	155				
9/7/2022		34	82		
9/8/2022	129				
9/13/2022					
9/14/2022					
9/15/2022					
9/16/2022					
9/19/2022					
9/20/2022				230	511

FIGURE E.

# Appendix III Trend Tests - Prediction Limit Exceedances - Significant Results

Plant McDonough    Client: Southern Company    Data: McDonough AP    Printed 10/19/2022, 2:50 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	DGWC-10	-0.6423	-83	-53	Yes	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-11	0.095	88	53	Yes	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-12	-1.28	-89	-63	Yes	17	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-17	0.0358	60	58	Yes	16	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-19	-0.1619	-61	-58	Yes	16	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-2	-0.2101	-114	-58	Yes	16	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-20	-0.5955	-84	-58	Yes	16	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-4	0.2684	71	53	Yes	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-47	-0.03016	-96	-58	Yes	16	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-48	-0.06746	-88	-58	Yes	16	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-8	-0.3705	-92	-53	Yes	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-9	-0.2529	-99	-58	Yes	16	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWA-53 (bg)	-3.715	-76	-58	Yes	16	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-11	4.261	83	53	Yes	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-12	-10.06	-78	-58	Yes	16	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-19	6.369	102	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-21	1.958	62	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-23	2.115	61	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-4	22.28	73	53	Yes	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-48	-6.895	-100	-58	Yes	16	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-5	6.333	65	53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWA-53 (bg)	-0.1771	-85	-63	Yes	17	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-15	0.4392	59	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-19	-3.747	-98	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-20	2.426	101	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-21	-1.053	-91	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-22	-2.126	-93	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-23	-0.8986	-101	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-4	-3.414	-114	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-42	-2.91	-102	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-48	-1.826	-84	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-5	0.3411	57	53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-9	0.626	69	58	Yes	16	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWC-47	-0.1679	-89	-68	Yes	18	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWC-48	-0.1553	-91	-68	Yes	18	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-19	0.04093	79	68	Yes	18	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-47	-0.1631	-73	-68	Yes	18	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-5	0.07276	69	68	Yes	18	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-9	-0.02181	-104	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWA-70A (bg)	-0.1765	-60	-58	Yes	16	43.75	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWA-71 (bg)	-1.051	-88	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-12	-42.42	-73	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-15	-8.479	-82	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-19	17.24	77	58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-2	-44.93	-112	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-20	-45.89	-84	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-21	-7.273	-62	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-42	-13.23	-61	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-47	-44.25	-93	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-48	-52.03	-101	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-8	-66.86	-98	-53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWA-53 (bg)	-21.09	-79	-58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-11	28.16	64	53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-12	-58.28	-77	-58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-17	10.39	59	58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-19	31.56	79	58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-20	-55.19	-94	-58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-4	79.41	70	58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-48	-57.63	-104	-58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-5	43.17	81	53	Yes	15	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 10/19/2022, 2:50 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	DGWA-53 (bg)	-0.003305	-39	-58	No	16	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWA-70A (bg)	0	33	58	No	16	56.25	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWA-71 (bg)	0.0007215	16	53	No	15	26.67	n/a	n/a	0.01	NP
<b>Boron, total (mg/L)</b>	<b>DGWC-10</b>	<b>-0.6423</b>	<b>-83</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron, total (mg/L)</b>	<b>DGWC-11</b>	<b>0.095</b>	<b>88</b>	<b>53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron, total (mg/L)</b>	<b>DGWC-12</b>	<b>-1.28</b>	<b>-89</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron, total (mg/L)	DGWC-13	-0.05906	-47	-53	No	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-15	0.005901	15	58	No	16	0	n/a	n/a	0.01	NP
<b>Boron, total (mg/L)</b>	<b>DGWC-17</b>	<b>0.0358</b>	<b>60</b>	<b>58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron, total (mg/L)</b>	<b>DGWC-19</b>	<b>-0.1619</b>	<b>-61</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron, total (mg/L)</b>	<b>DGWC-2</b>	<b>-0.2101</b>	<b>-114</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron, total (mg/L)</b>	<b>DGWC-20</b>	<b>-0.5955</b>	<b>-84</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron, total (mg/L)	DGWC-21	0.2627	34	58	No	16	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-22	0.06805	27	58	No	16	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-23	0.08846	30	58	No	16	0	n/a	n/a	0.01	NP
<b>Boron, total (mg/L)</b>	<b>DGWC-4</b>	<b>0.2684</b>	<b>71</b>	<b>53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron, total (mg/L)	DGWC-42	-0.01051	-20	-58	No	16	0	n/a	n/a	0.01	NP
<b>Boron, total (mg/L)</b>	<b>DGWC-47</b>	<b>-0.03016</b>	<b>-96</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron, total (mg/L)</b>	<b>DGWC-48</b>	<b>-0.06746</b>	<b>-88</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron, total (mg/L)	DGWC-5	-0.04623	-8	-53	No	15	0	n/a	n/a	0.01	NP
<b>Boron, total (mg/L)</b>	<b>DGWC-8</b>	<b>-0.3705</b>	<b>-92</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron, total (mg/L)</b>	<b>DGWC-9</b>	<b>-0.2529</b>	<b>-99</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium, total (mg/L)</b>	<b>DGWA-53 (bg)</b>	<b>-3.715</b>	<b>-76</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	DGWA-70A (bg)	-0.03479	-12	-58	No	16	6.25	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWA-71 (bg)	-0.4482	-35	-53	No	15	6.667	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-10	-1.696	-29	-53	No	15	0	n/a	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>DGWC-11</b>	<b>4.261</b>	<b>83</b>	<b>53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium, total (mg/L)</b>	<b>DGWC-12</b>	<b>-10.06</b>	<b>-78</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium, total (mg/L)</b>	<b>DGWC-19</b>	<b>6.369</b>	<b>102</b>	<b>58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	DGWC-20	-4.337	-42	-58	No	16	0	n/a	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>DGWC-21</b>	<b>1.958</b>	<b>62</b>	<b>58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	DGWC-22	0.2951	21	58	No	16	0	n/a	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>DGWC-23</b>	<b>2.115</b>	<b>61</b>	<b>58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium, total (mg/L)</b>	<b>DGWC-4</b>	<b>22.28</b>	<b>73</b>	<b>53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium, total (mg/L)</b>	<b>DGWC-48</b>	<b>-6.895</b>	<b>-100</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium, total (mg/L)</b>	<b>DGWC-5</b>	<b>6.333</b>	<b>65</b>	<b>53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	DGWC-9	-5.436	-52	-58	No	16	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>DGWA-53 (bg)</b>	<b>-0.1771</b>	<b>-85</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	DGWA-70A (bg)	-0.06575	-45	-58	No	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWA-71 (bg)	0.3259	40	58	No	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-11	0.5735	41	53	No	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-13	-0.2472	-13	-53	No	15	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>DGWC-15</b>	<b>0.4392</b>	<b>59</b>	<b>58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	DGWC-17	0.3354	28	58	No	16	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>DGWC-19</b>	<b>-3.747</b>	<b>-98</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride, Total (mg/L)</b>	<b>DGWC-20</b>	<b>2.426</b>	<b>101</b>	<b>58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride, Total (mg/L)</b>	<b>DGWC-21</b>	<b>-1.053</b>	<b>-91</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride, Total (mg/L)</b>	<b>DGWC-22</b>	<b>-2.126</b>	<b>-93</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride, Total (mg/L)</b>	<b>DGWC-23</b>	<b>-0.8986</b>	<b>-101</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride, Total (mg/L)</b>	<b>DGWC-4</b>	<b>-3.414</b>	<b>-114</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride, Total (mg/L)</b>	<b>DGWC-42</b>	<b>-2.91</b>	<b>-102</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride, Total (mg/L)</b>	<b>DGWC-48</b>	<b>-1.826</b>	<b>-84</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride, Total (mg/L)</b>	<b>DGWC-5</b>	<b>0.3411</b>	<b>57</b>	<b>53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	DGWC-8	-0.2292	-43	-53	No	15	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>DGWC-9</b>	<b>0.626</b>	<b>69</b>	<b>58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Fluoride, total (mg/L)	DGWA-53 (bg)	-0.0006648	-9	-74	No	19	10.53	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWA-70A (bg)	0	47	63	No	17	64.71	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWA-71 (bg)	0	22	68	No	18	77.78	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWC-10	0	4	68	No	18	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWC-20	0.04015	19	68	No	18	5.556	n/a	n/a	0.01	NP
<b>Fluoride, total (mg/L)</b>	<b>DGWC-47</b>	<b>-0.1679</b>	<b>-89</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Fluoride, total (mg/L)</b>	<b>DGWC-48</b>	<b>-0.1553</b>	<b>-91</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Fluoride, total (mg/L)	DGWC-9	0	7	68	No	18	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWA-53 (bg)	0.01874	12	74	No	19	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWA-70A (bg)	-0.02257	-32	-68	No	18	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWA-71 (bg)	0	1	74	No	19	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-10	0.02347	21	74	No	19	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-17	0	4	74	No	19	0	n/a	n/a	0.01	NP

# Appendix III Trend Tests - Prediction Limit Exceedances - All Results Page 2

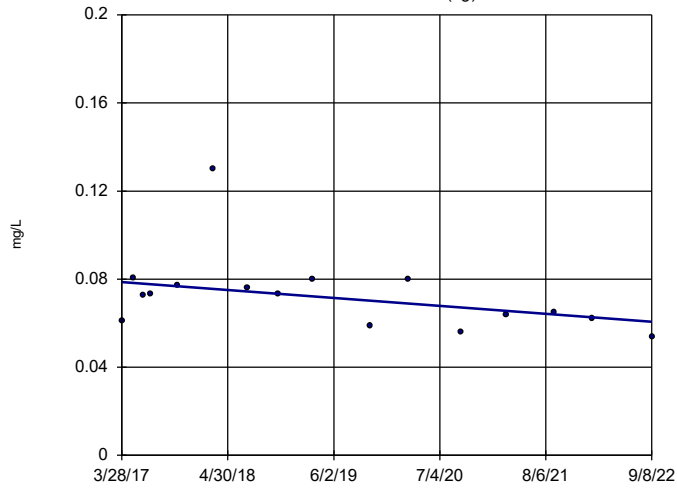
Plant McDonough    Client: Southern Company    Data: McDonough AP    Printed 10/19/2022, 2:50 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
<b>pH, Field (SU)</b>	<b>DGWC-19</b>	<b>0.04093</b>	<b>79</b>	<b>68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
pH, Field (SU)	DGWC-20	-0.02109	-57	-63	No	17	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-42	-0.02876	-52	-68	No	18	0	n/a	n/a	0.01	NP
<b>pH, Field (SU)</b>	<b>DGWC-47</b>	<b>-0.1631</b>	<b>-73</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
pH, Field (SU)	DGWC-48	-0.03316	-43	-68	No	18	0	n/a	n/a	0.01	NP
<b>pH, Field (SU)</b>	<b>DGWC-5</b>	<b>0.07276</b>	<b>69</b>	<b>68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>pH, Field (SU)</b>	<b>DGWC-9</b>	<b>-0.02181</b>	<b>-104</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	DGWA-53 (bg)	-0.7643	-32	-63	No	17	0	n/a	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWA-70A (bg)</b>	<b>-0.1765</b>	<b>-60</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>43.75</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWA-71 (bg)</b>	<b>-1.051</b>	<b>-88</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	DGWC-10	-30.79	-57	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-11	11.92	48	53	No	15	0	n/a	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-12</b>	<b>-42.42</b>	<b>-73</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	DGWC-13	-8.581	-53	-53	No	15	0	n/a	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-15</b>	<b>-8.479</b>	<b>-82</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	DGWC-17	0	2	58	No	16	0	n/a	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-19</b>	<b>17.24</b>	<b>77</b>	<b>58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-2</b>	<b>-44.93</b>	<b>-112</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-20</b>	<b>-45.89</b>	<b>-84</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-21</b>	<b>-7.273</b>	<b>-62</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	DGWC-22	-5.891	-21	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-23	0.2684	10	58	No	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-4	27.81	42	58	No	16	0	n/a	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-42</b>	<b>-13.23</b>	<b>-61</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-47</b>	<b>-44.25</b>	<b>-93</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-48</b>	<b>-52.03</b>	<b>-101</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	DGWC-5	4.117	7	53	No	15	0	n/a	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-8</b>	<b>-66.86</b>	<b>-98</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	DGWC-9	-11.5	-36	-58	No	16	0	n/a	n/a	0.01	NP
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWA-53 (bg)</b>	<b>-21.09</b>	<b>-79</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids [TDS] (mg/L)	DGWA-70A (bg)	-2.113	-12	-58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWA-71 (bg)	-3.712	-40	-58	No	16	0	n/a	n/a	0.01	NP
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-11</b>	<b>28.16</b>	<b>64</b>	<b>53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-12</b>	<b>-58.28</b>	<b>-77</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids [TDS] (mg/L)	DGWC-15	-0.7883	-3	-53	No	15	0	n/a	n/a	0.01	NP
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-17</b>	<b>10.39</b>	<b>59</b>	<b>58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-19</b>	<b>31.56</b>	<b>79</b>	<b>58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-20</b>	<b>-55.19</b>	<b>-94</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids [TDS] (mg/L)	DGWC-21	-4.363	-17	-58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-22	-5.96	-47	-58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-23	2.758	21	58	No	16	0	n/a	n/a	0.01	NP
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-4</b>	<b>79.41</b>	<b>70</b>	<b>58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids [TDS] (mg/L)	DGWC-42	-19.72	-45	-58	No	16	0	n/a	n/a	0.01	NP
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-48</b>	<b>-57.63</b>	<b>-104</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-5</b>	<b>43.17</b>	<b>81</b>	<b>53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids [TDS] (mg/L)	DGWC-9	1.122	3	58	No	16	0	n/a	n/a	0.01	NP



### Sen's Slope Estimator

DGWA-53 (bg)



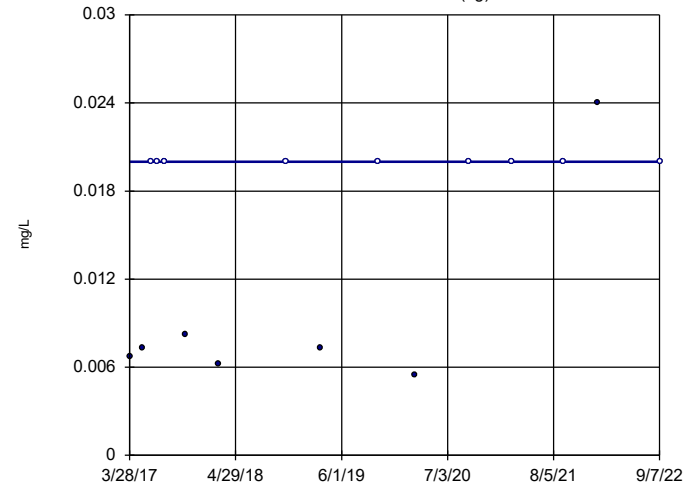
n = 16  
 Slope = -0.003305 units per year.  
 Mann-Kendall statistic = -39  
 critical = -58  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 10/19/2022 2:46 AM View: Appendix III - Trend Test  
 Plant McDonough Client: Southern Company Data: McDonough AP

Hollow symbols indicate censored values.

### Sen's Slope Estimator

DGWA-70A (bg)



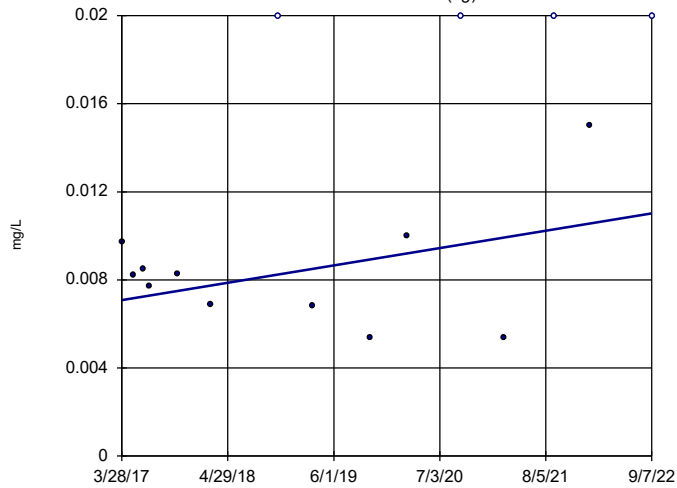
n = 16  
 Slope = 0 units per year.  
 Mann-Kendall statistic = 33  
 critical = 58  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 10/19/2022 2:46 AM View: Appendix III - Trend Test  
 Plant McDonough Client: Southern Company Data: McDonough AP

Hollow symbols indicate censored values.

### Sen's Slope Estimator

DGWA-71 (bg)

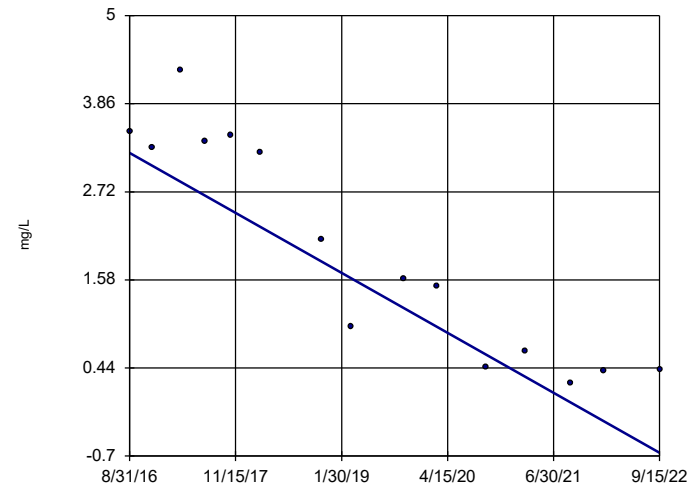


n = 15  
 Slope = 0.0007215 units per year.  
 Mann-Kendall statistic = 16  
 critical = 53  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 10/19/2022 2:46 AM View: Appendix III - Trend Test  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

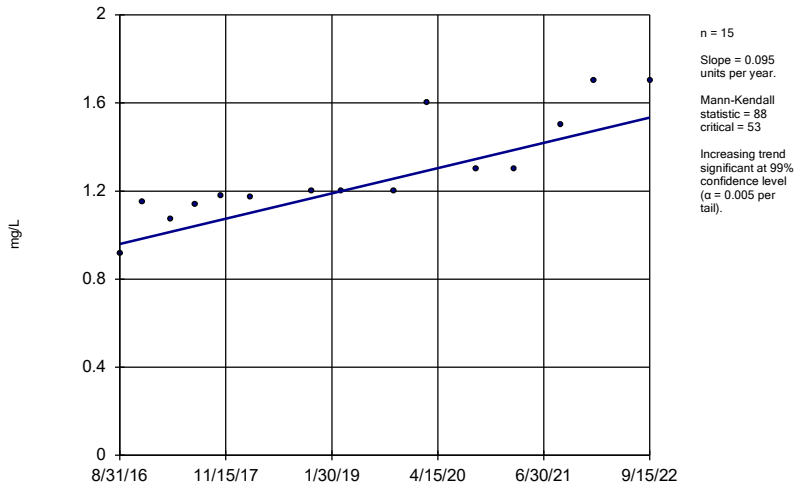
DGWC-10



n = 15  
 Slope = -0.6423 units per year.  
 Mann-Kendall statistic = -83  
 critical = -53  
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

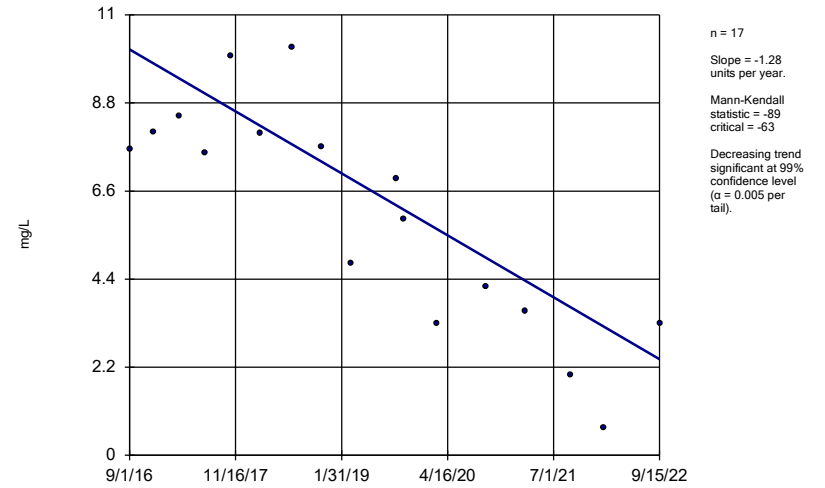
Constituent: Boron, total Analysis Run 10/19/2022 2:46 AM View: Appendix III - Trend Test  
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-11



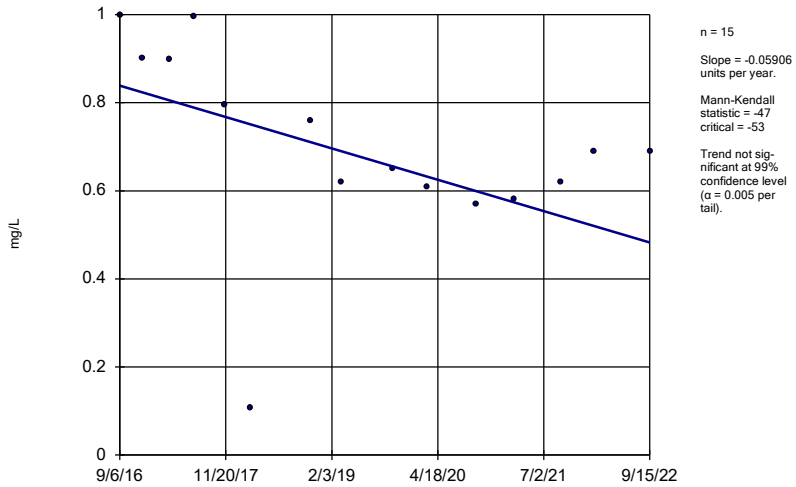
Constituent: Boron, total Analysis Run 10/19/2022 2:46 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-12



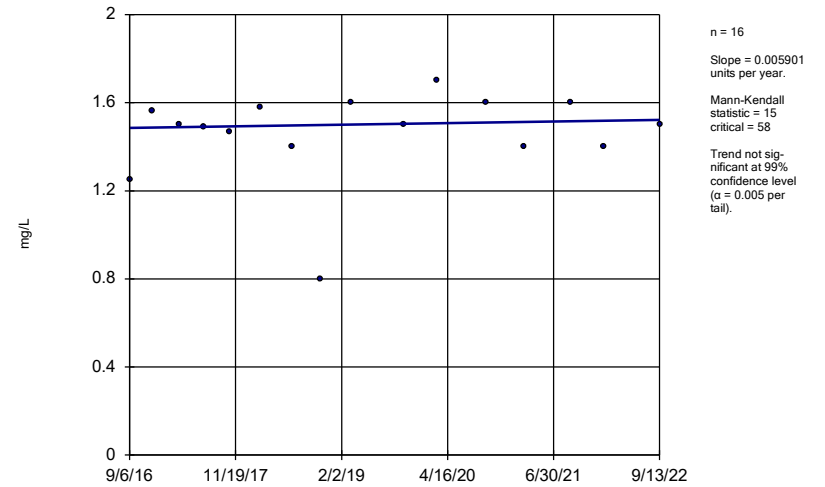
Constituent: Boron, total Analysis Run 10/19/2022 2:46 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-13



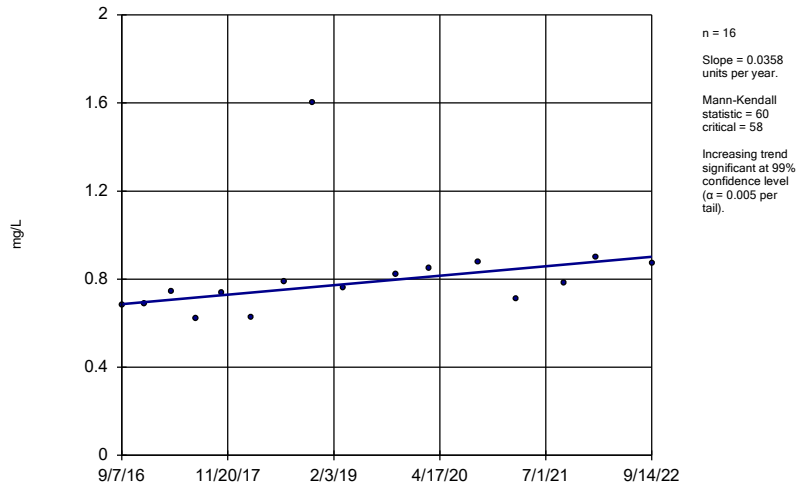
Constituent: Boron, total Analysis Run 10/19/2022 2:46 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-15



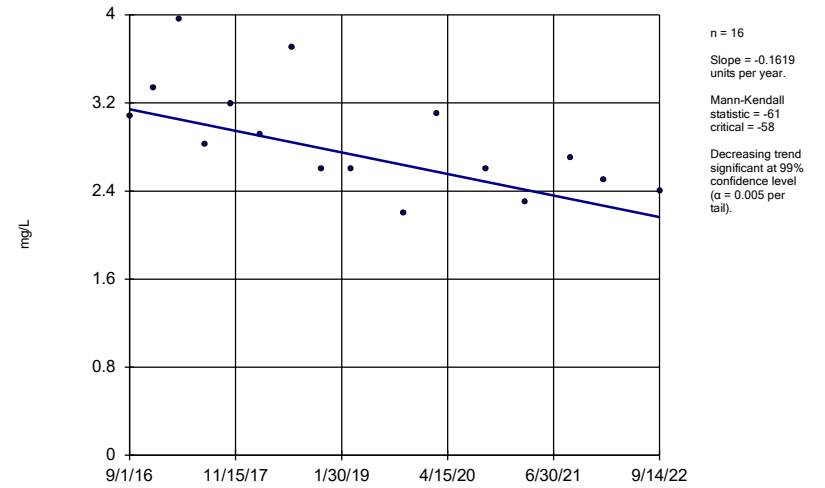
Constituent: Boron, total Analysis Run 10/19/2022 2:46 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-17



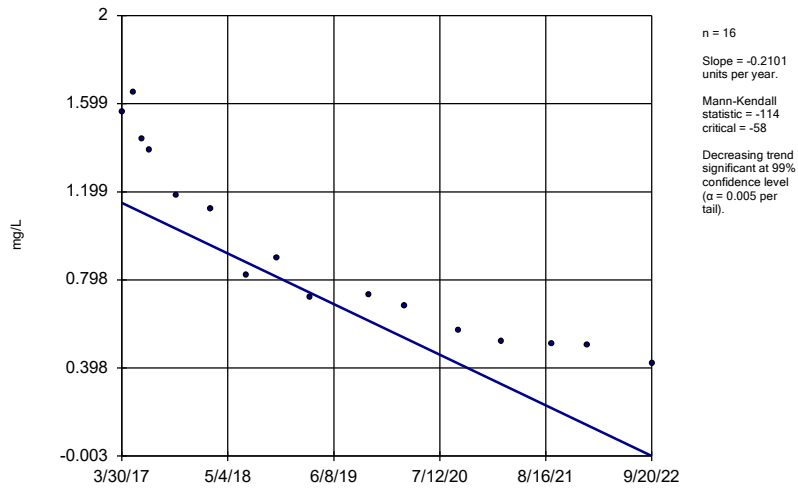
Constituent: Boron, total Analysis Run 10/19/2022 2:46 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-19



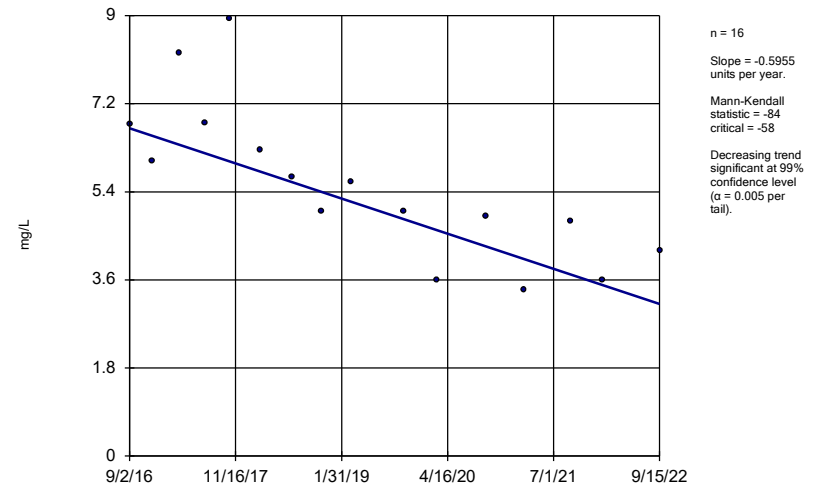
Constituent: Boron, total Analysis Run 10/19/2022 2:46 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-2



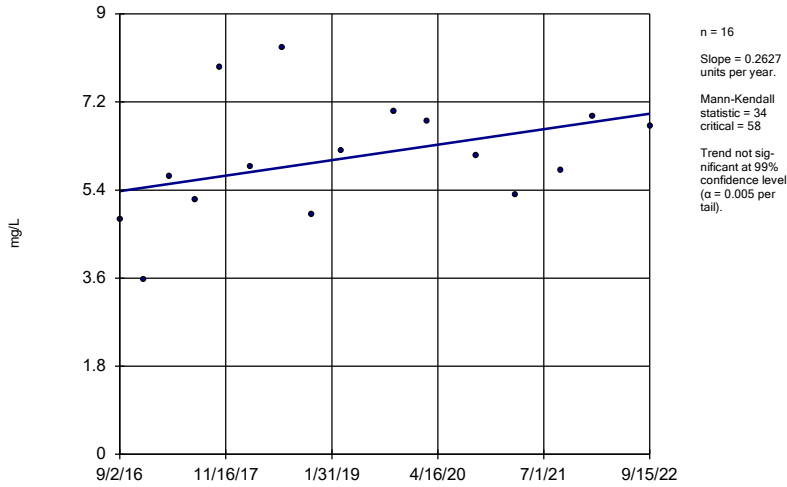
Constituent: Boron, total Analysis Run 10/19/2022 2:46 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-20



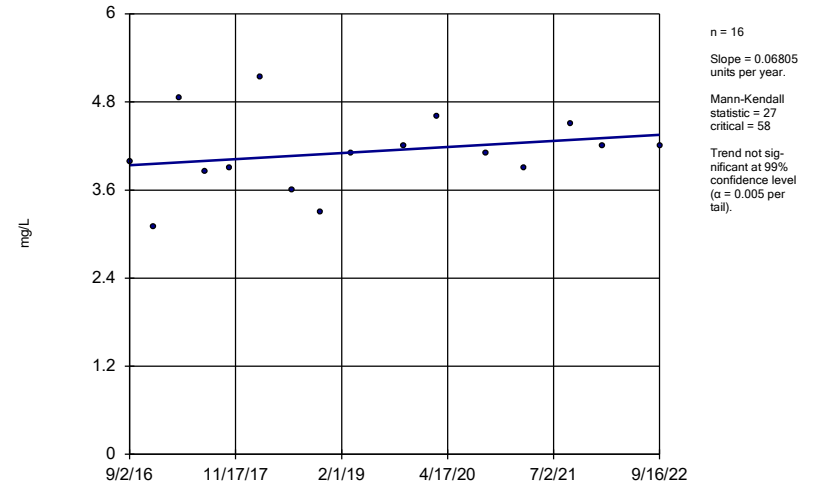
Constituent: Boron, total Analysis Run 10/19/2022 2:46 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-21



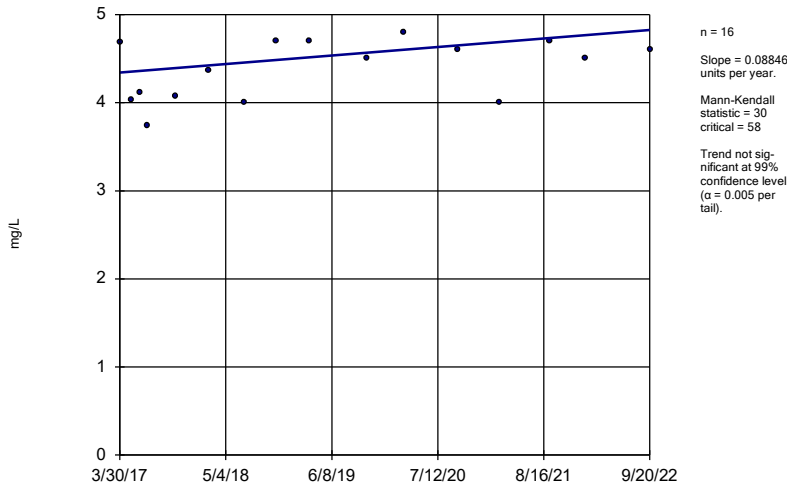
Constituent: Boron, total Analysis Run 10/19/2022 2:46 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-22



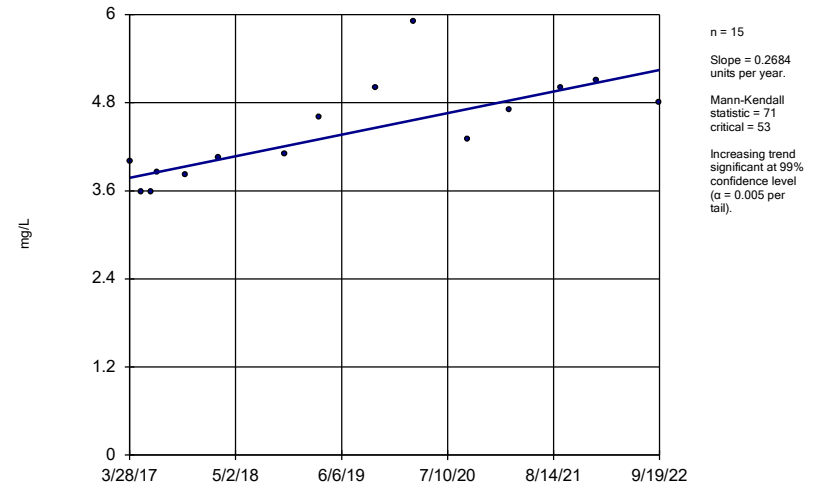
Constituent: Boron, total Analysis Run 10/19/2022 2:46 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-23



Constituent: Boron, total Analysis Run 10/19/2022 2:46 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

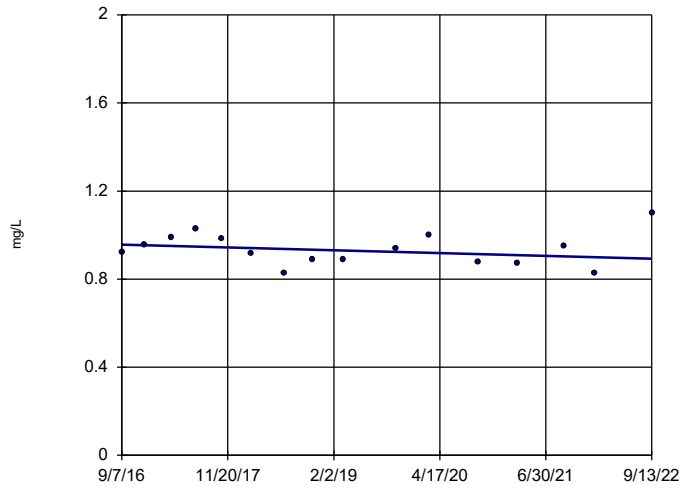
### Sen's Slope Estimator DGWC-4



Constituent: Boron, total Analysis Run 10/19/2022 2:46 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-42

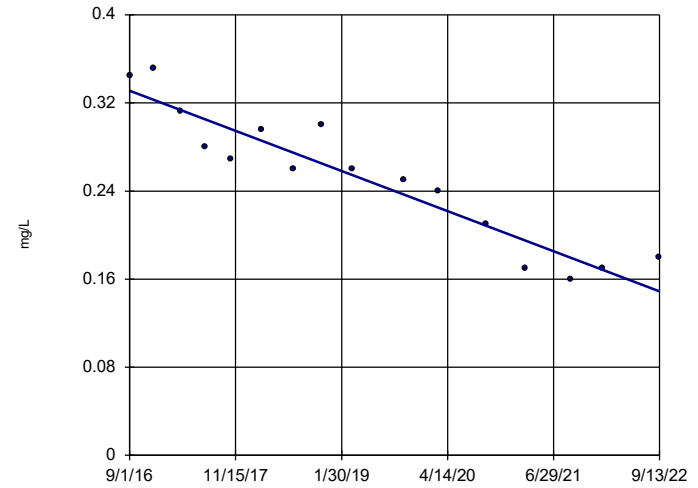


n = 16  
 Slope = -0.01051  
 units per year.  
 Mann-Kendall  
 statistic = -20  
 critical = -58  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Boron, total Analysis Run 10/19/2022 2:46 AM View: Appendix III - Trend Test  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-47

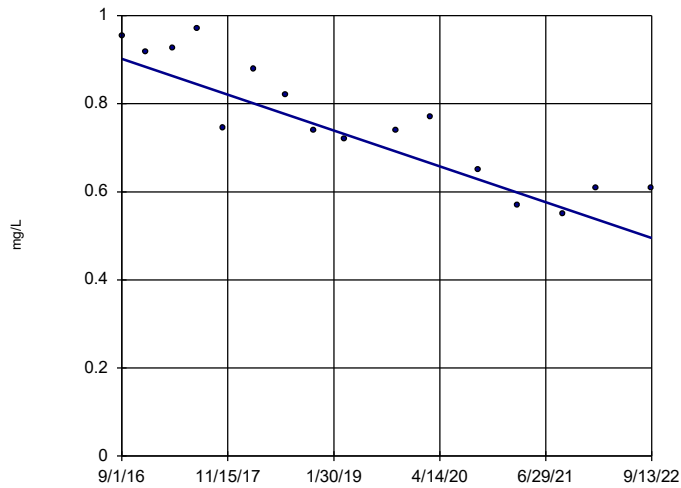


n = 16  
 Slope = -0.03016  
 units per year.  
 Mann-Kendall  
 statistic = -96  
 critical = -58  
 Decreasing trend  
 significant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Boron, total Analysis Run 10/19/2022 2:46 AM View: Appendix III - Trend Test  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-48

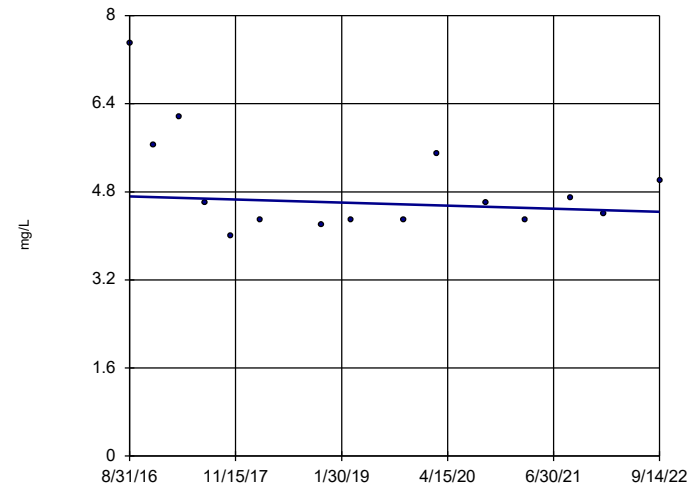


n = 16  
 Slope = -0.06746  
 units per year.  
 Mann-Kendall  
 statistic = -88  
 critical = -58  
 Decreasing trend  
 significant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Boron, total Analysis Run 10/19/2022 2:46 AM View: Appendix III - Trend Test  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

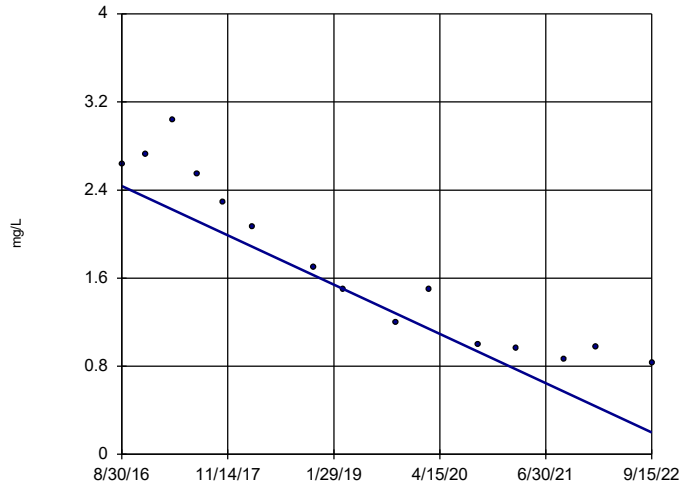
DGWC-5



n = 15  
 Slope = -0.04623  
 units per year.  
 Mann-Kendall  
 statistic = -8  
 critical = -53  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Boron, total Analysis Run 10/19/2022 2:46 AM View: Appendix III - Trend Test  
 Plant McDonough Client: Southern Company Data: McDonough AP

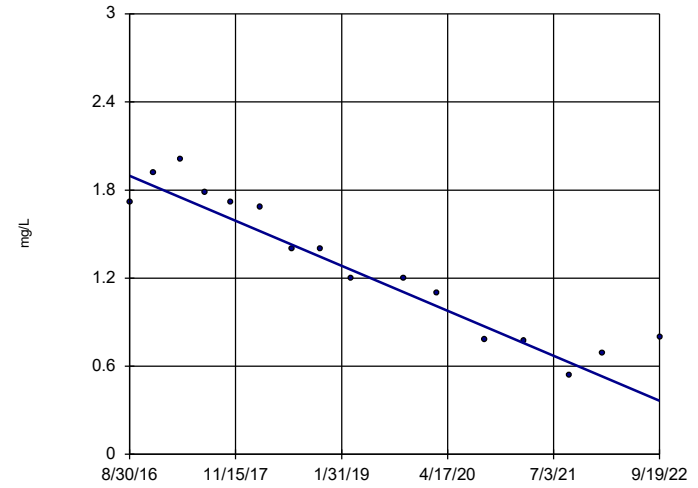
### Sen's Slope Estimator DGWC-8



n = 15  
 Slope = -0.3705  
 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 10/19/2022 2:46 AM View: Appendix III - Trend Test  
 Plant McDonough Client: Southern Company Data: McDonough AP

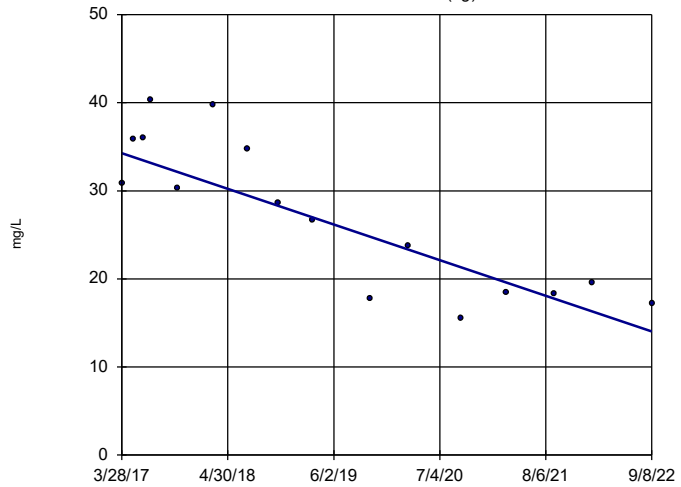
### Sen's Slope Estimator DGWC-9



n = 16  
 Slope = -0.2529  
 units per year.  
 Mann-Kendall  
 statistic = -99  
 critical = -58  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Boron, total Analysis Run 10/19/2022 2:46 AM View: Appendix III - Trend Test  
 Plant McDonough Client: Southern Company Data: McDonough AP

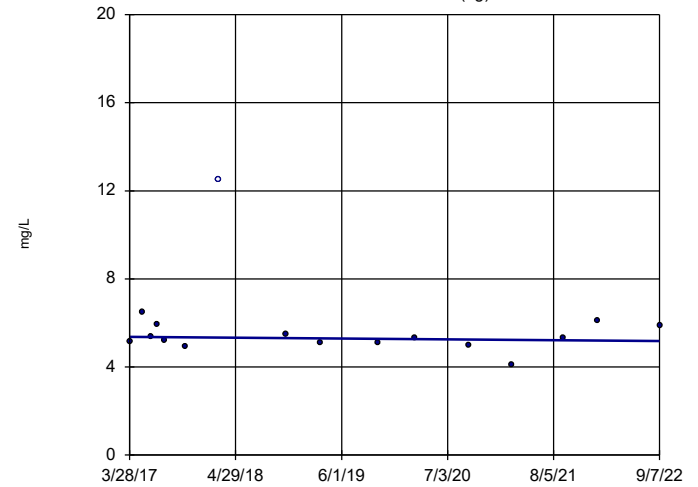
### Sen's Slope Estimator DGWA-53 (bg)



n = 16  
 Slope = -3.715  
 units per year.  
 Mann-Kendall  
 statistic = -76  
 critical = -58  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Calcium, total Analysis Run 10/19/2022 2:46 AM View: Appendix III - Trend Test  
 Plant McDonough Client: Southern Company Data: McDonough AP

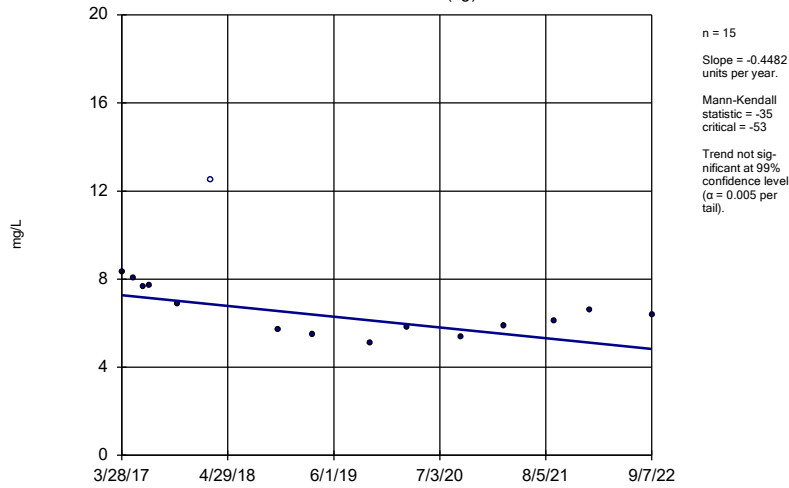
### Sen's Slope Estimator DGWA-70A (bg)



n = 16  
 Slope = -0.03479  
 units per year.  
 Mann-Kendall  
 statistic = -12  
 critical = -58  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

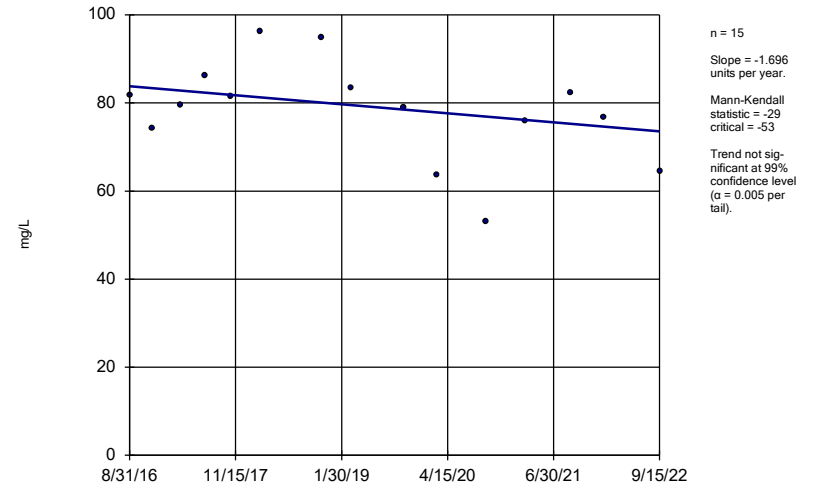
Constituent: Calcium, total Analysis Run 10/19/2022 2:46 AM View: Appendix III - Trend Test  
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWA-71 (bg)



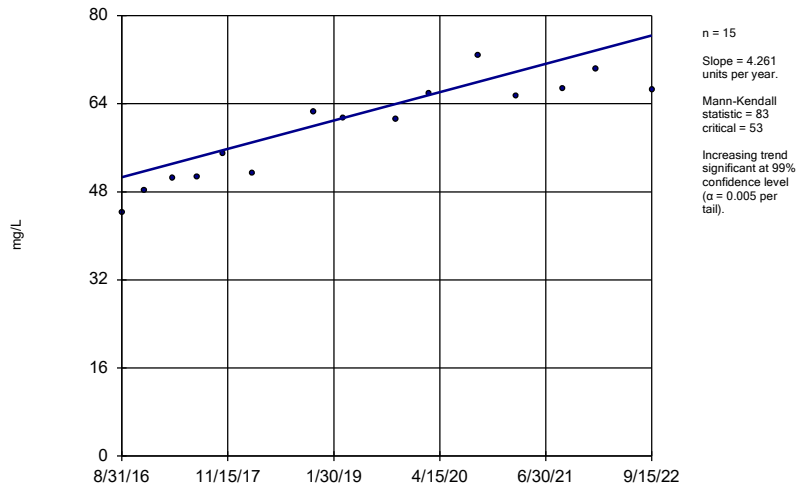
Constituent: Calcium, total Analysis Run 10/19/2022 2:46 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-10



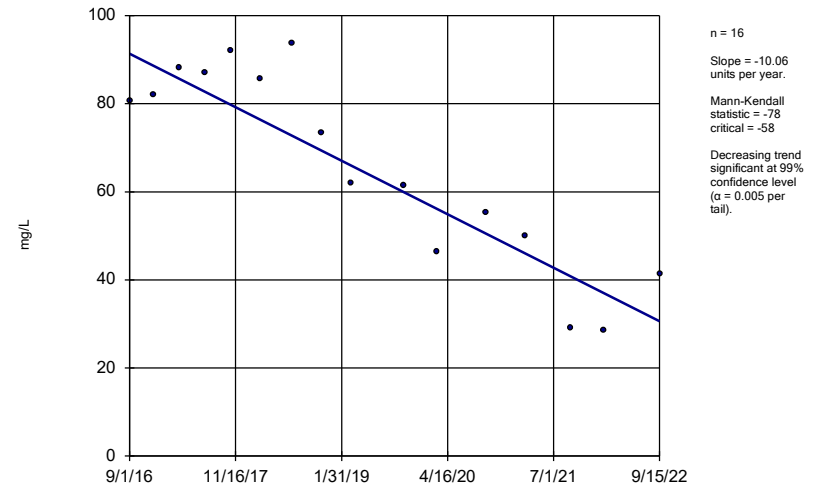
Constituent: Calcium, total Analysis Run 10/19/2022 2:46 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-11



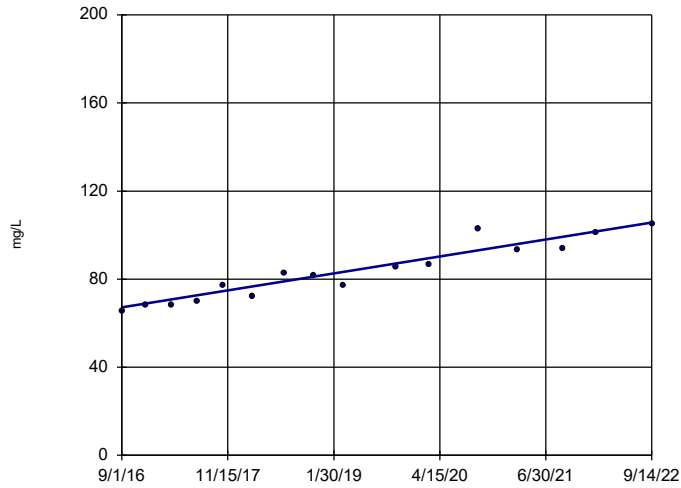
Constituent: Calcium, total Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-12



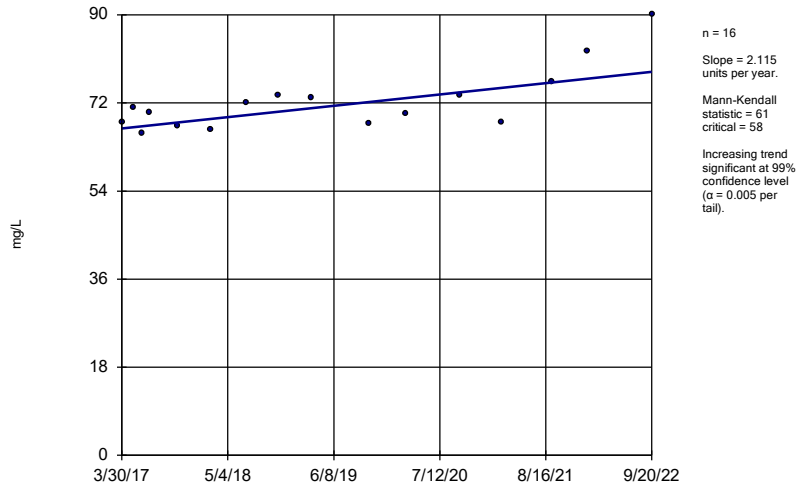
Constituent: Calcium, total Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-19



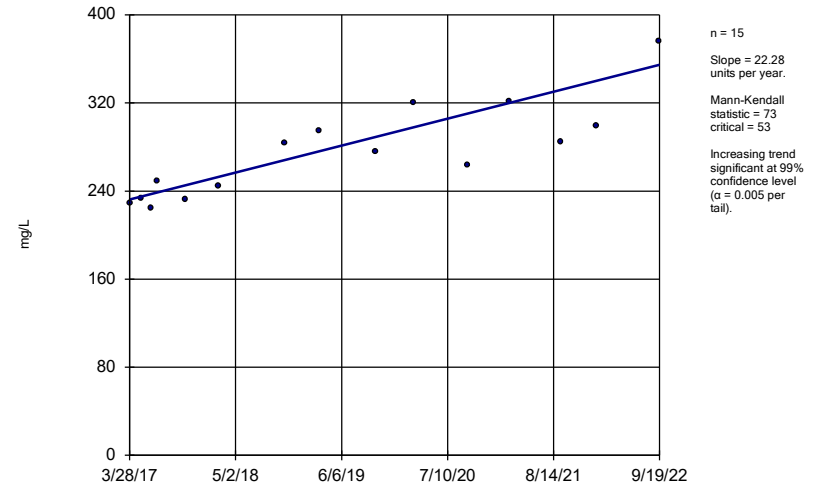


### Sen's Slope Estimator DGWC-23



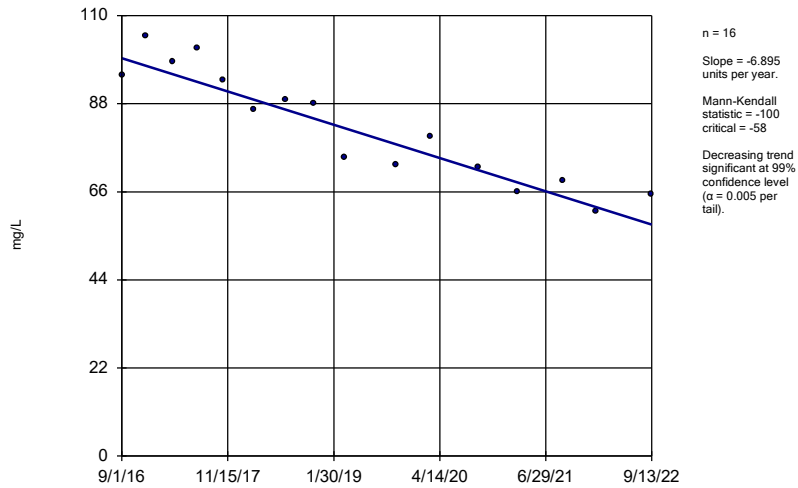
Constituent: Calcium, total Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-4



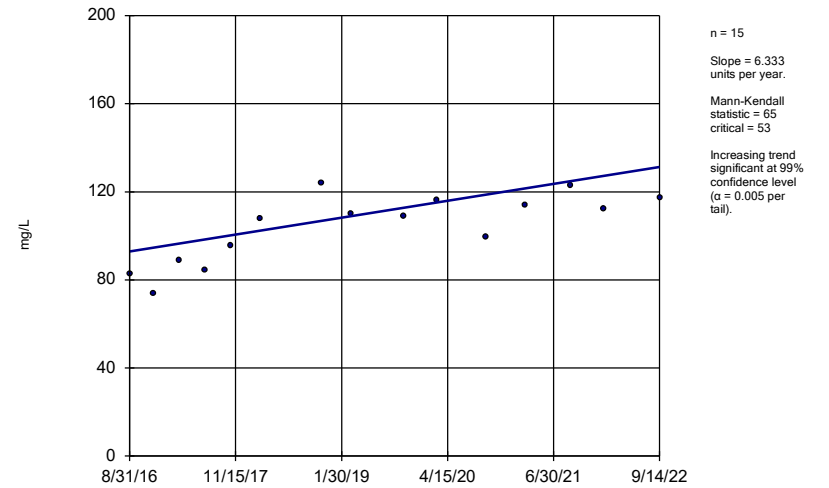
Constituent: Calcium, total Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-48



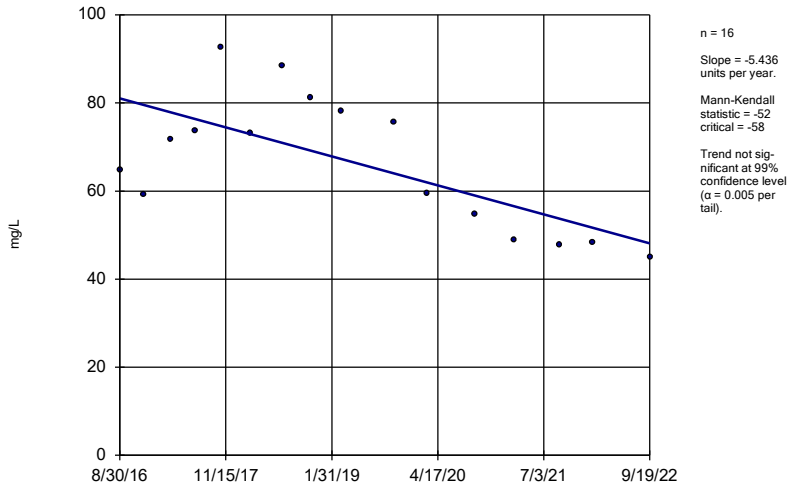
Constituent: Calcium, total Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-5



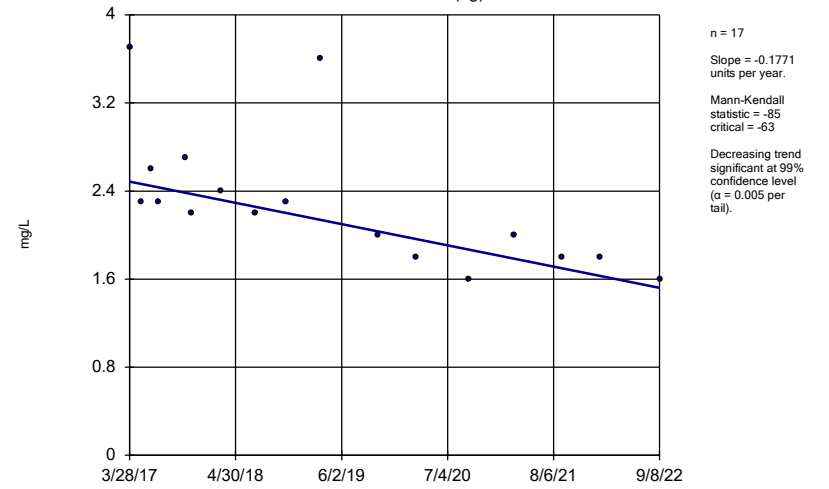
Constituent: Calcium, total Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-9



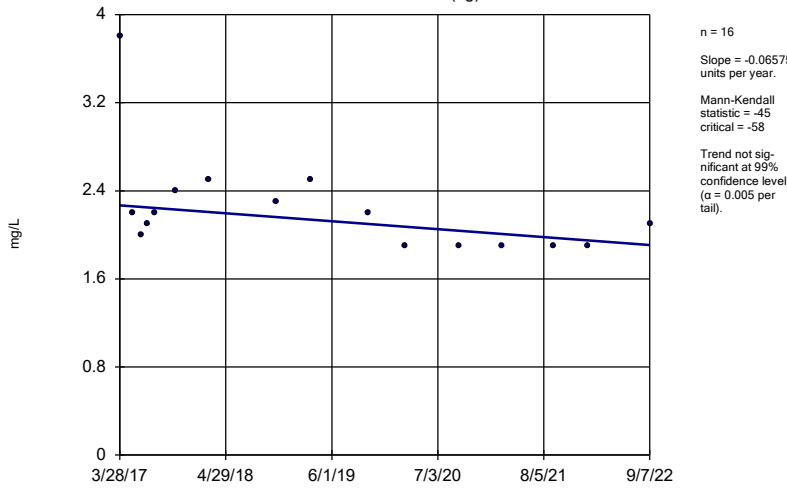
Constituent: Calcium, total Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWA-53 (bg)



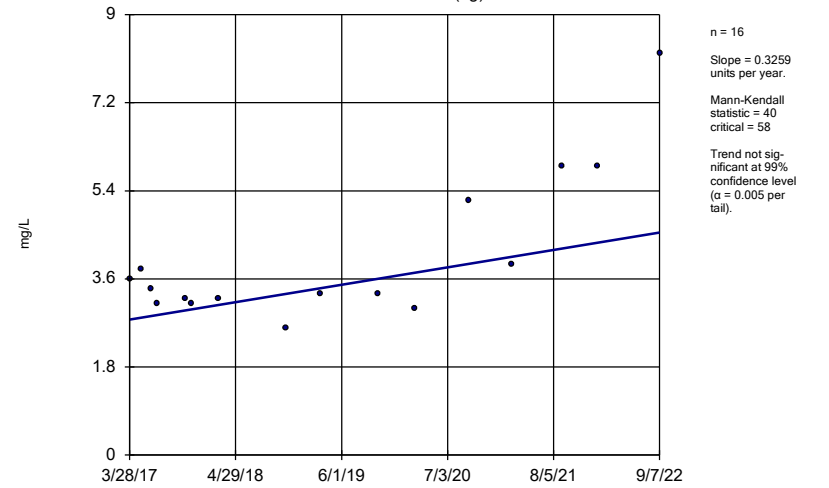
Constituent: Chloride, Total Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWA-70A (bg)



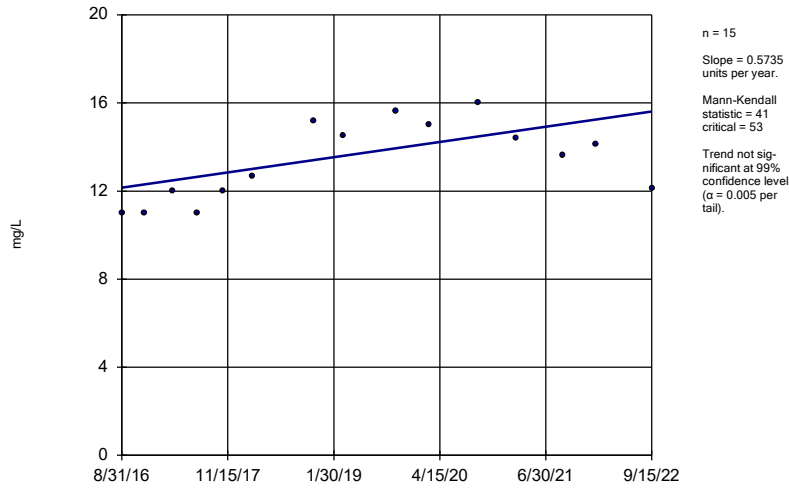
Constituent: Chloride, Total Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWA-71 (bg)



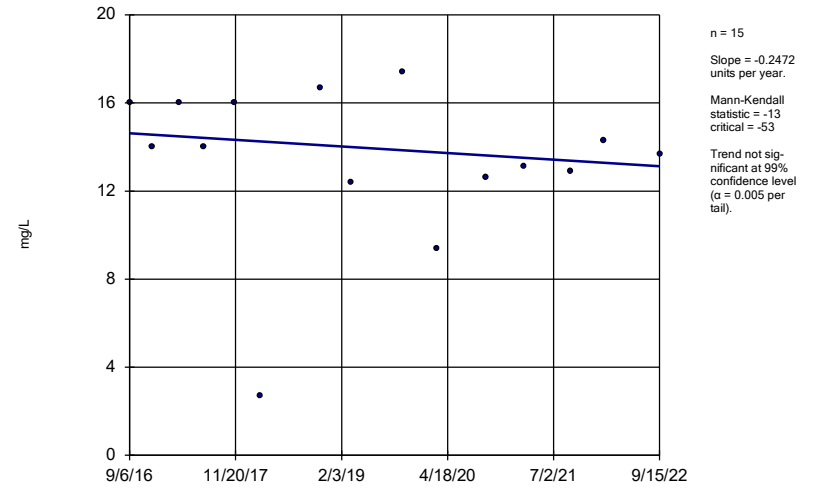
Constituent: Chloride, Total Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-11



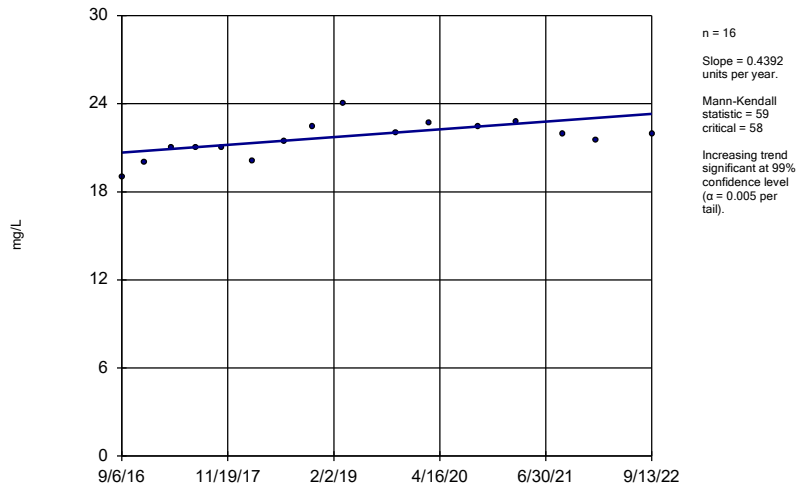
Constituent: Chloride, Total Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-13



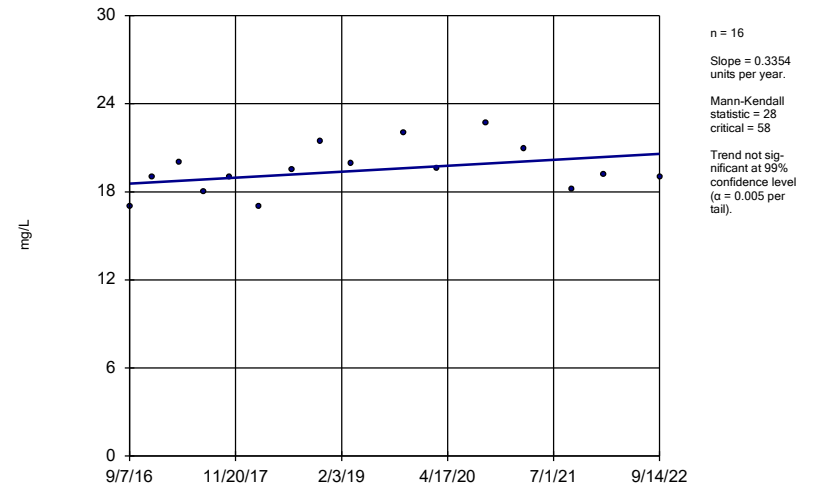
Constituent: Chloride, Total Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-15



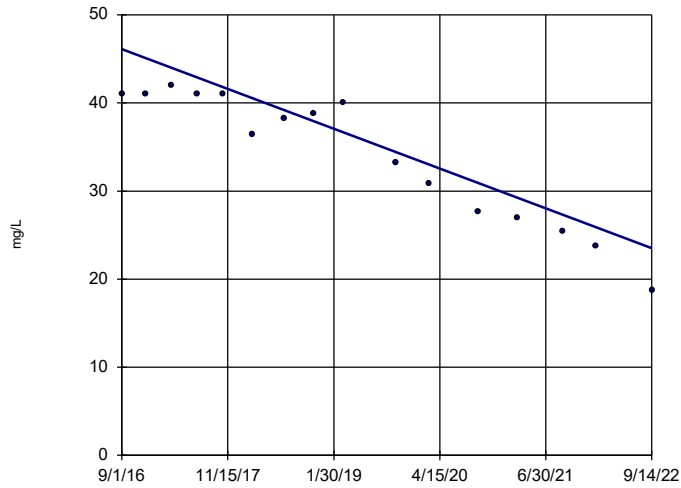
Constituent: Chloride, Total Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-17



Constituent: Chloride, Total Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

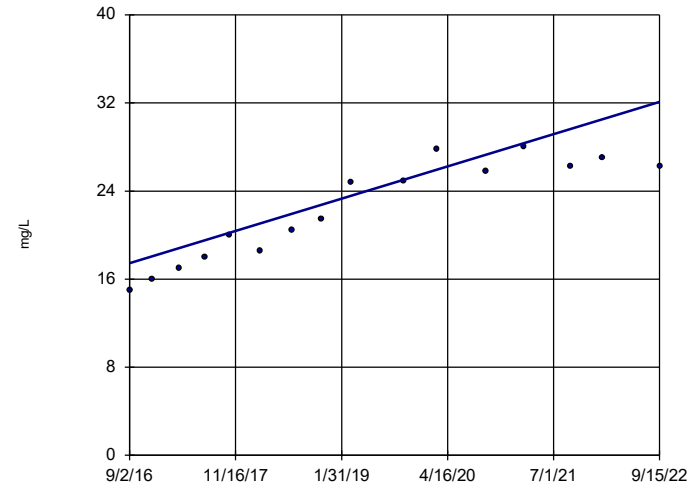
### Sen's Slope Estimator DGWC-19



n = 16  
 Slope = -3.747  
 units per year.  
 Mann-Kendall  
 statistic = -98  
 critical = -58  
 Decreasing trend  
 significant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Chloride, Total Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test  
 Plant McDonough Client: Southern Company Data: McDonough AP

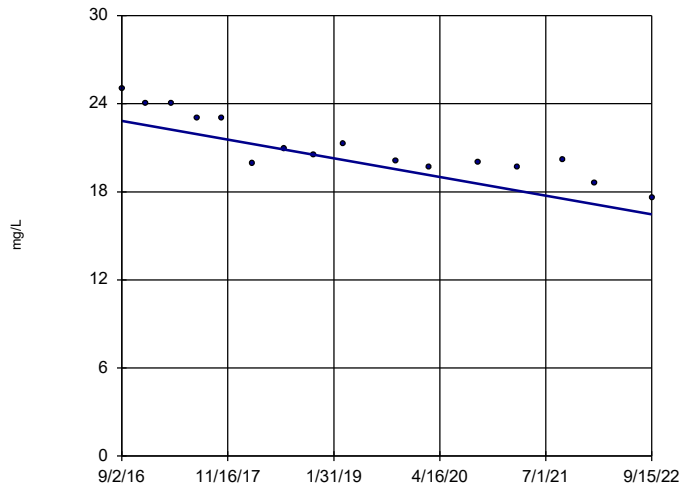
### Sen's Slope Estimator DGWC-20



n = 16  
 Slope = 2.426  
 units per year.  
 Mann-Kendall  
 statistic = 101  
 critical = 58  
 Increasing trend  
 significant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Chloride, Total Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test  
 Plant McDonough Client: Southern Company Data: McDonough AP

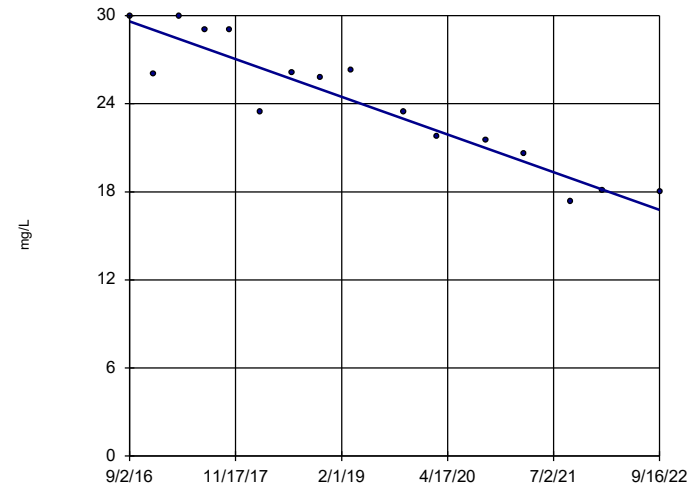
### Sen's Slope Estimator DGWC-21



n = 16  
 Slope = -1.053  
 units per year.  
 Mann-Kendall  
 statistic = -91  
 critical = -58  
 Decreasing trend  
 significant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Chloride, Total Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test  
 Plant McDonough Client: Southern Company Data: McDonough AP

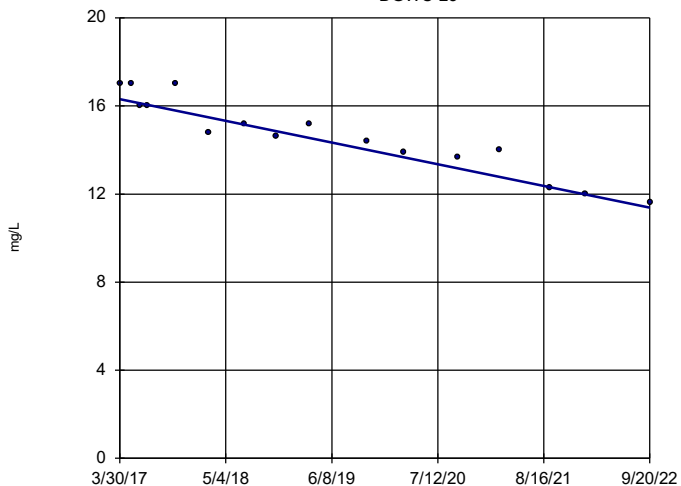
### Sen's Slope Estimator DGWC-22



n = 16  
 Slope = -2.126  
 units per year.  
 Mann-Kendall  
 statistic = -93  
 critical = -58  
 Decreasing trend  
 significant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

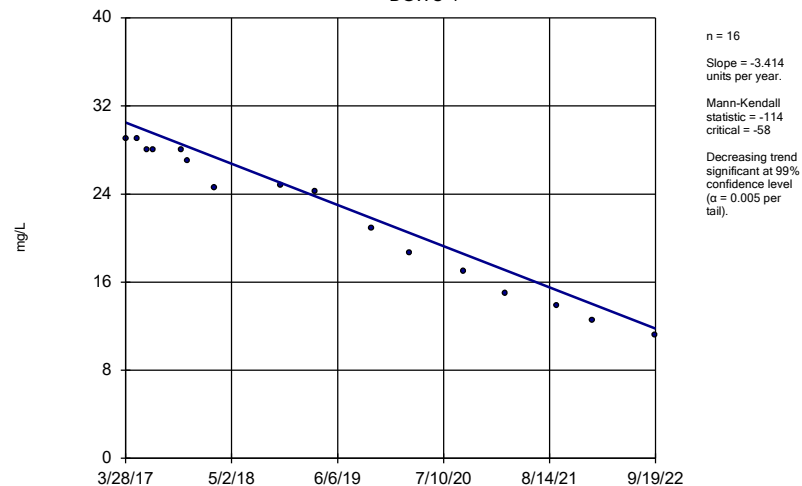
Constituent: Chloride, Total Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test  
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-23



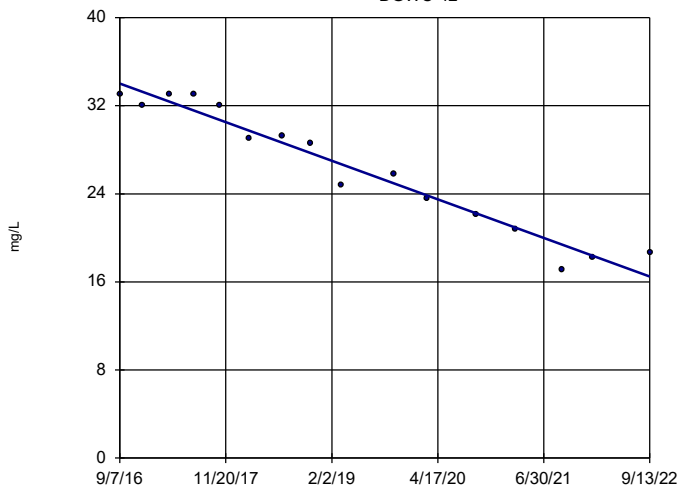
Constituent: Chloride, Total Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-4



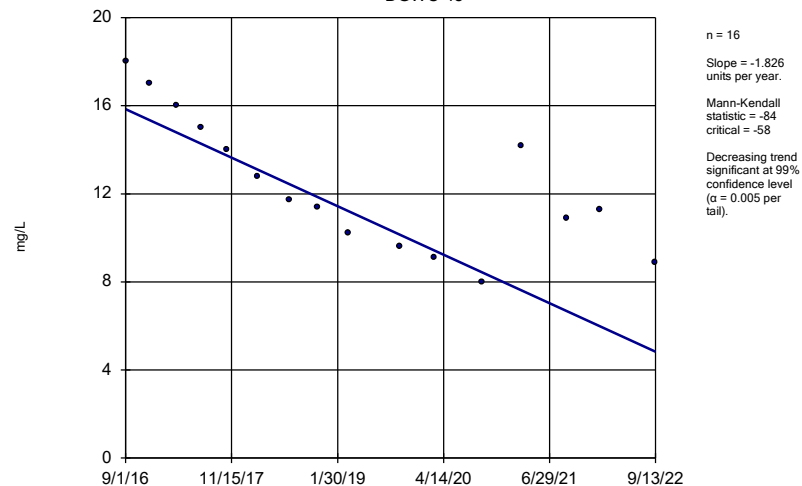
Constituent: Chloride, Total Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-42



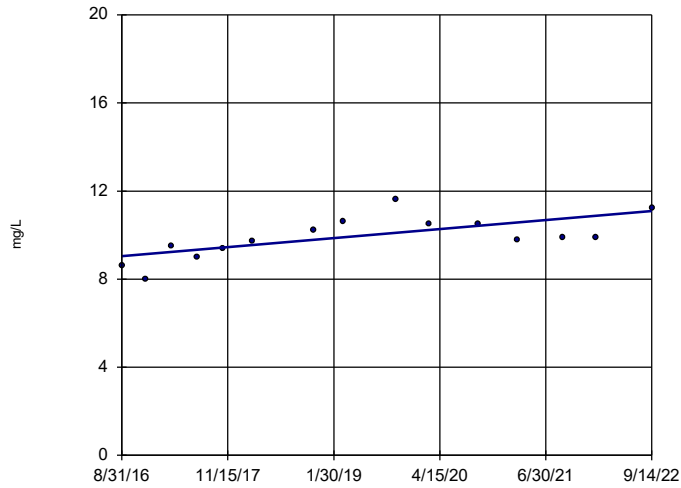
Constituent: Chloride, Total Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-48



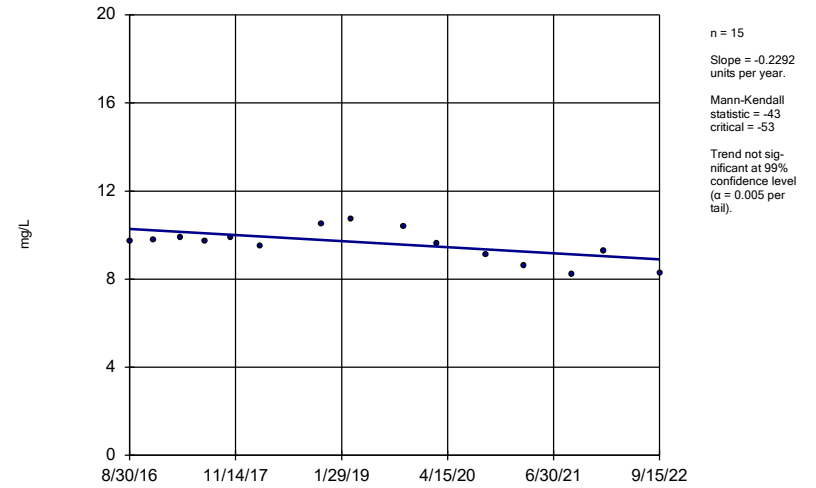
Constituent: Chloride, Total Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-5



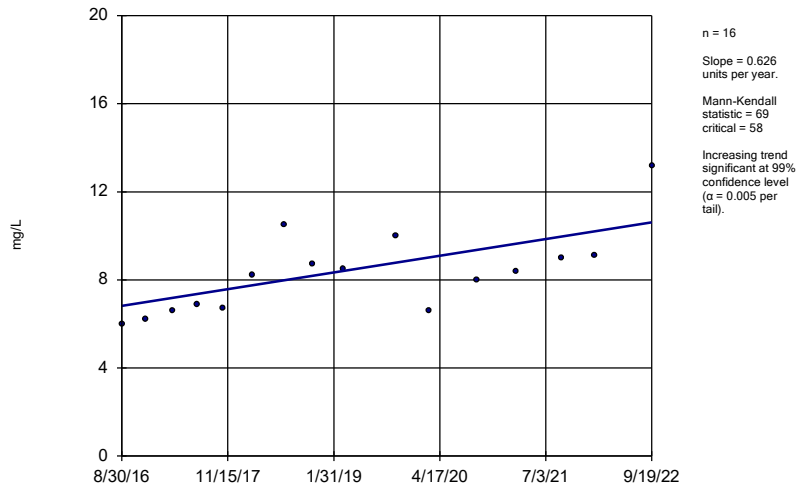
Constituent: Chloride, Total Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-8



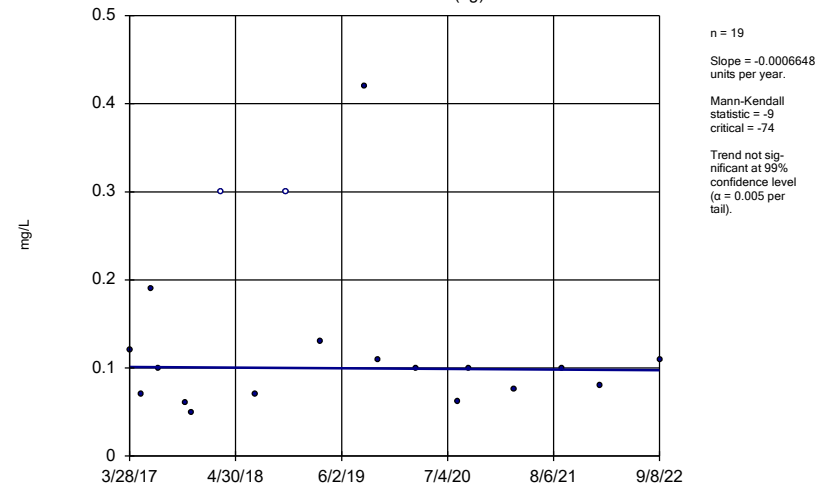
Constituent: Chloride, Total Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-9



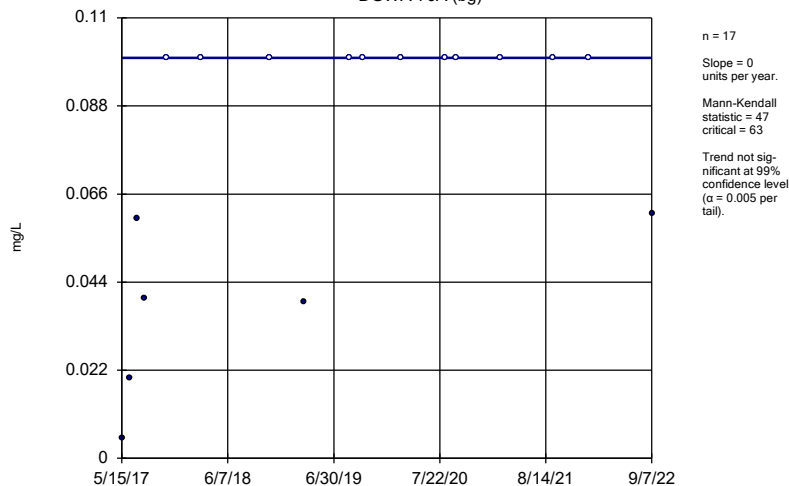
Constituent: Chloride, Total Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWA-53 (bg)



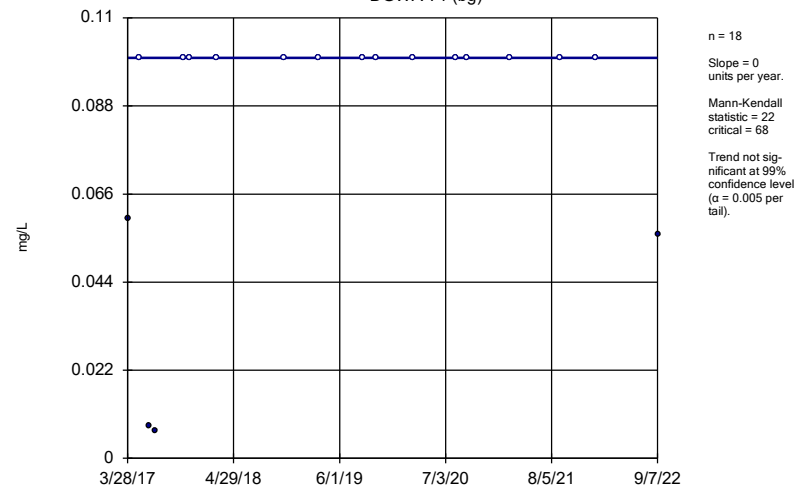
Constituent: Fluoride, total Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWA-70A (bg)



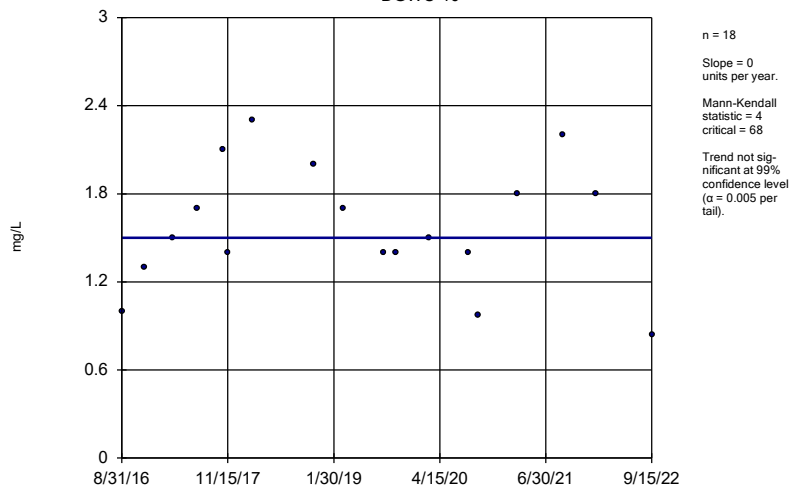
Constituent: Fluoride, total Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWA-71 (bg)



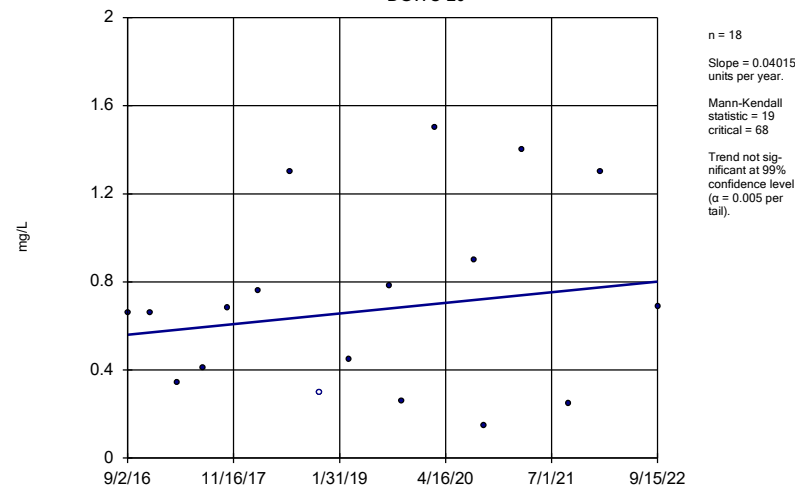
Constituent: Fluoride, total Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-10



Constituent: Fluoride, total Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

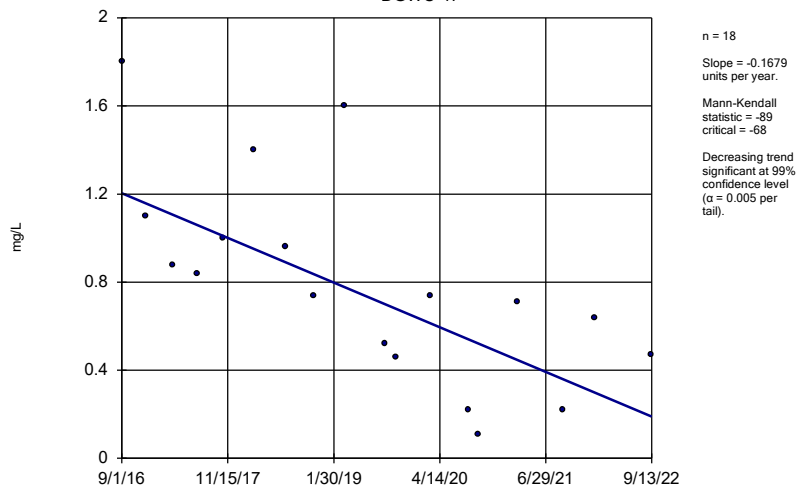
### Sen's Slope Estimator DGWC-20



Constituent: Fluoride, total Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

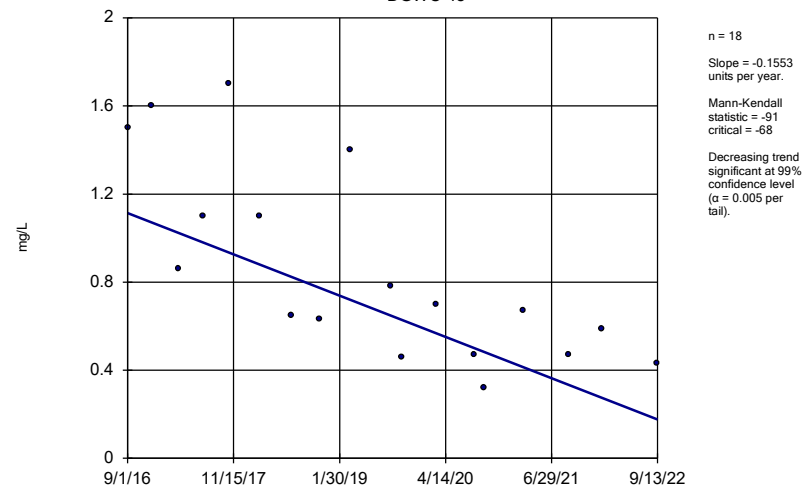
DGWC-47



Constituent: Fluoride, total Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

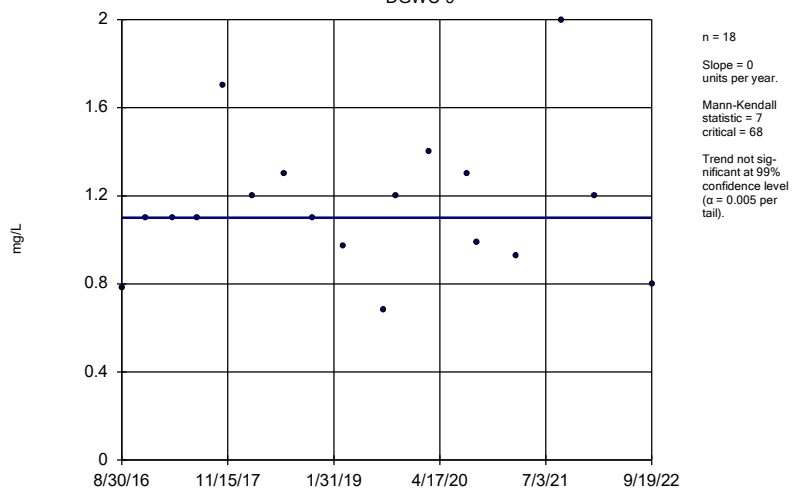
DGWC-48



Constituent: Fluoride, total Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

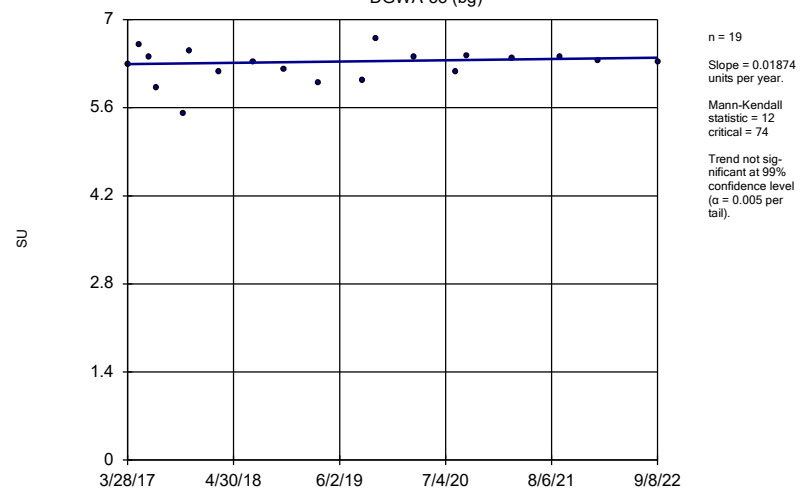
DGWC-9



Constituent: Fluoride, total Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

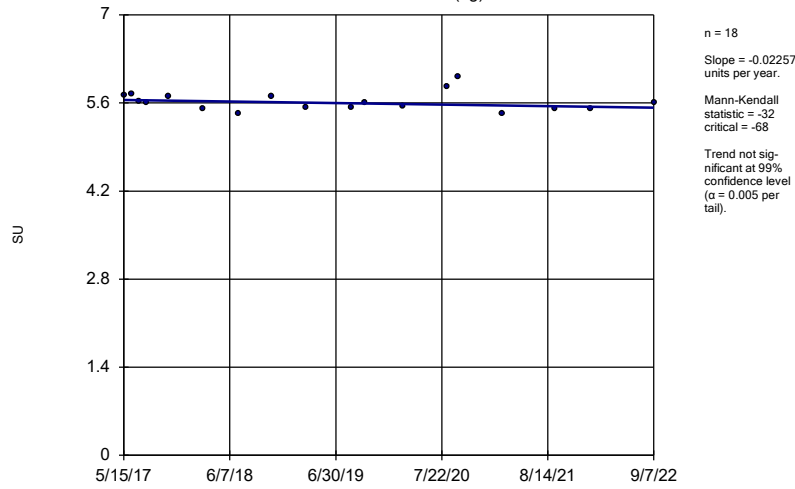
DGWA-53 (bg)



Constituent: pH, Field Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test  
 Plant McDonough Client: Southern Company Data: McDonough AP

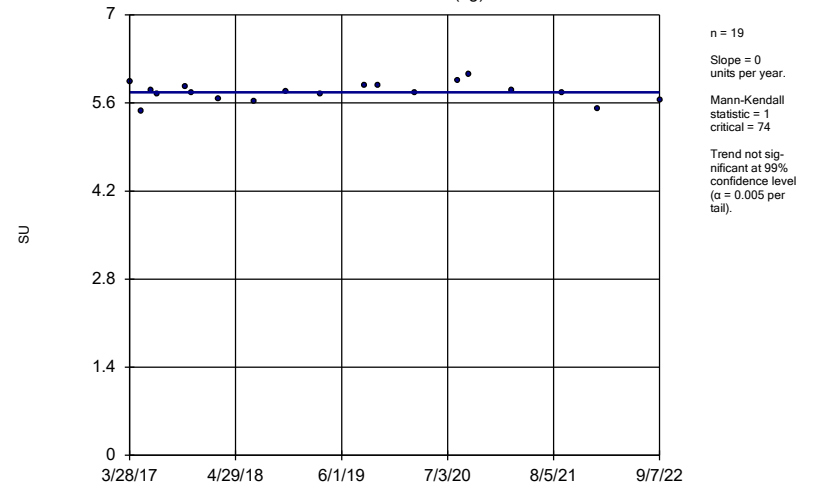


Sen's Slope Estimator  
DGWA-70A (bg)



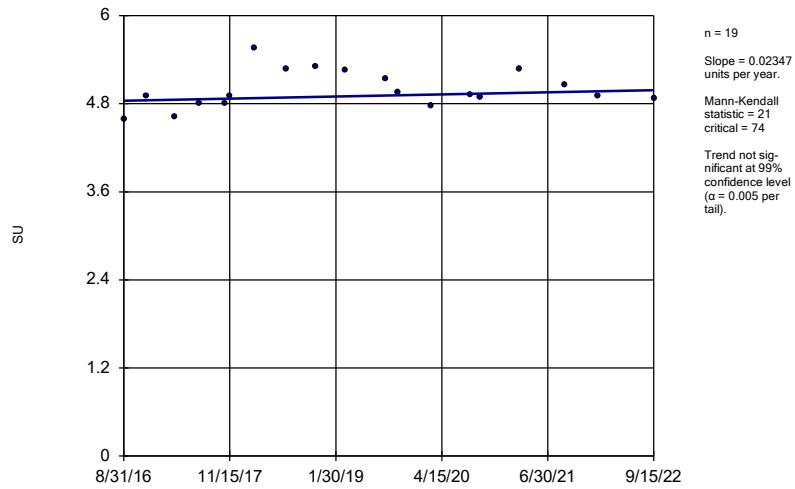
Constituent: pH, Field Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWA-71 (bg)



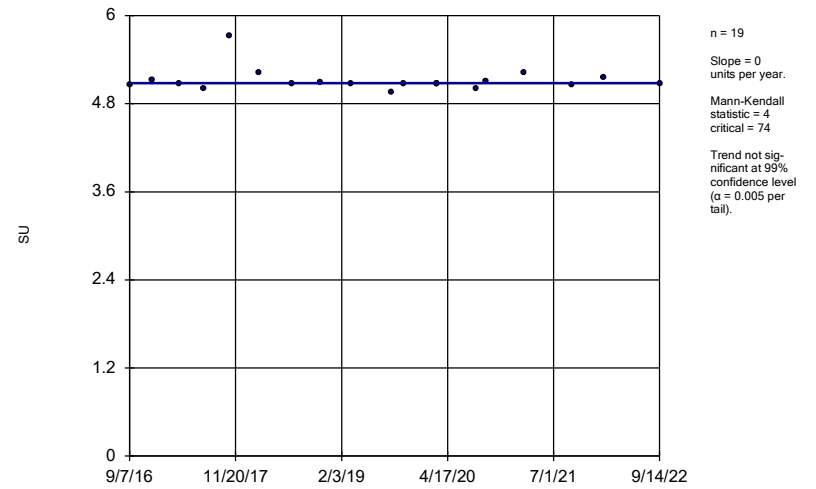
Constituent: pH, Field Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-10



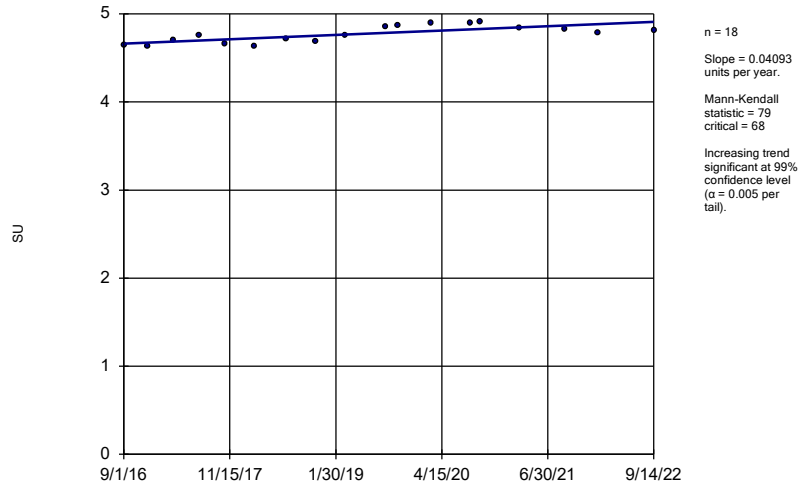
Constituent: pH, Field Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-17



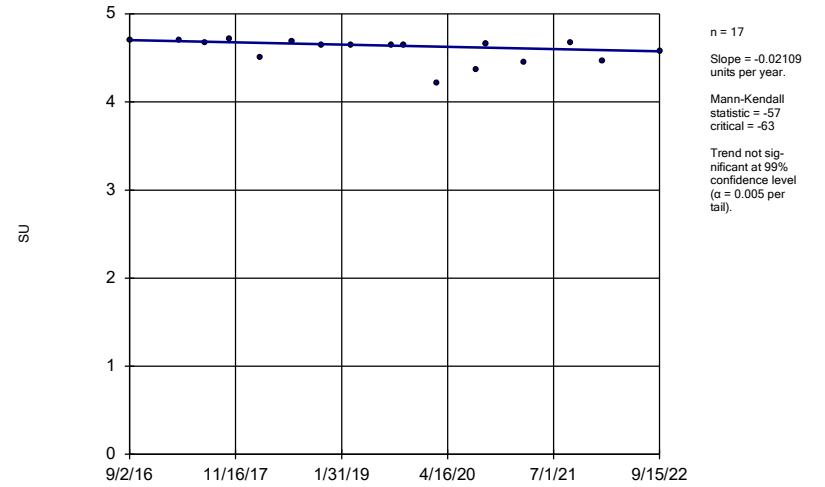
Constituent: pH, Field Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-19



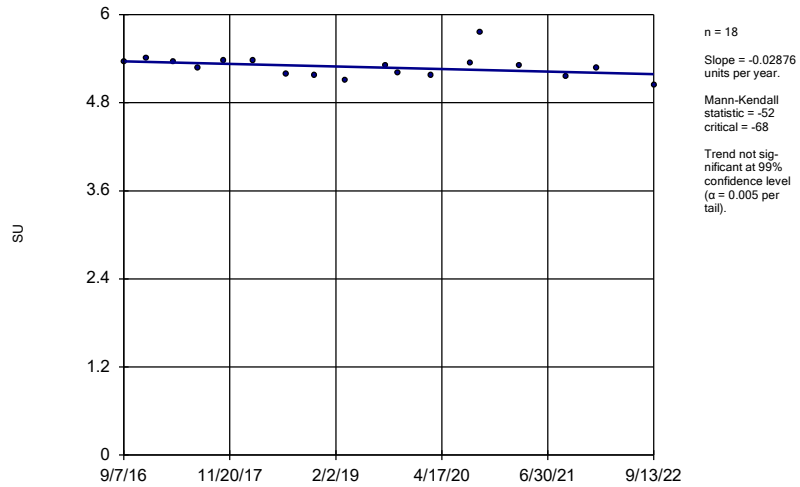
Constituent: pH, Field Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-20



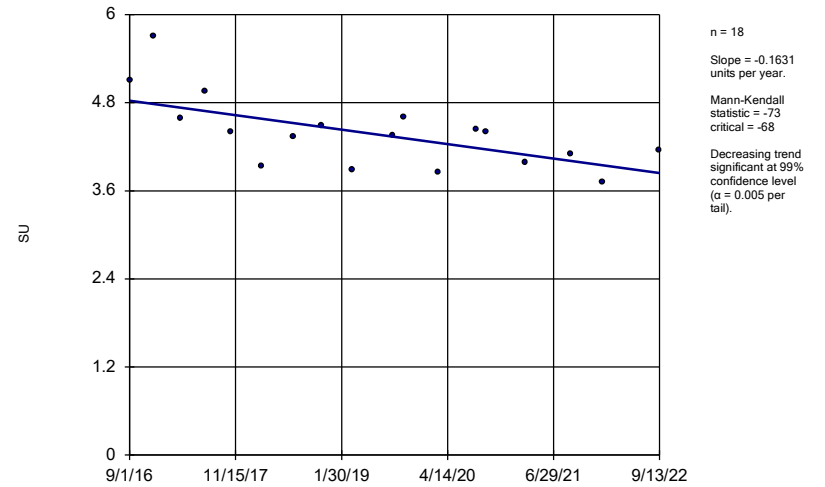
Constituent: pH, Field Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-42



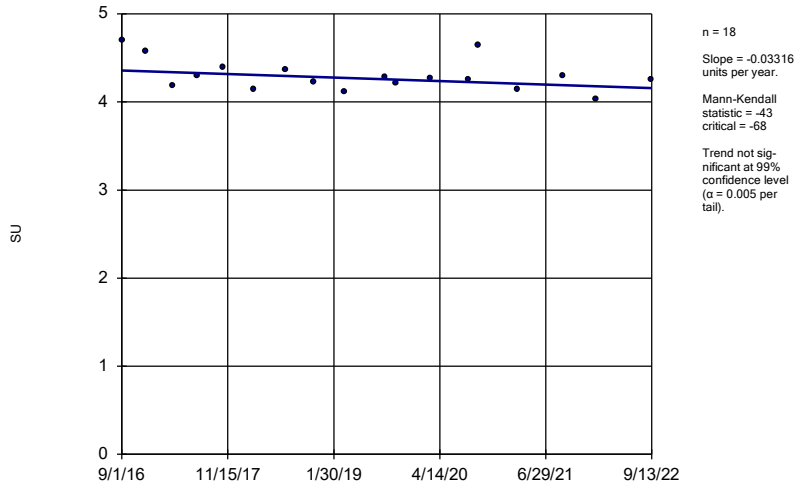
Constituent: pH, Field Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-47



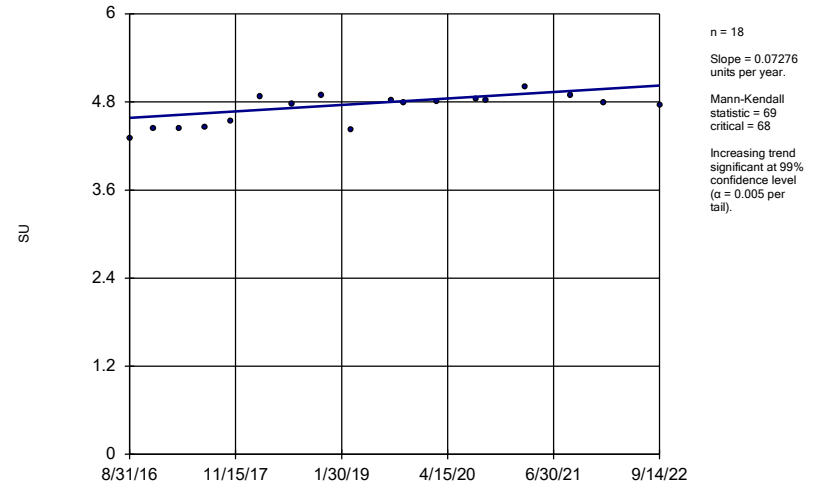
Constituent: pH, Field Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-48



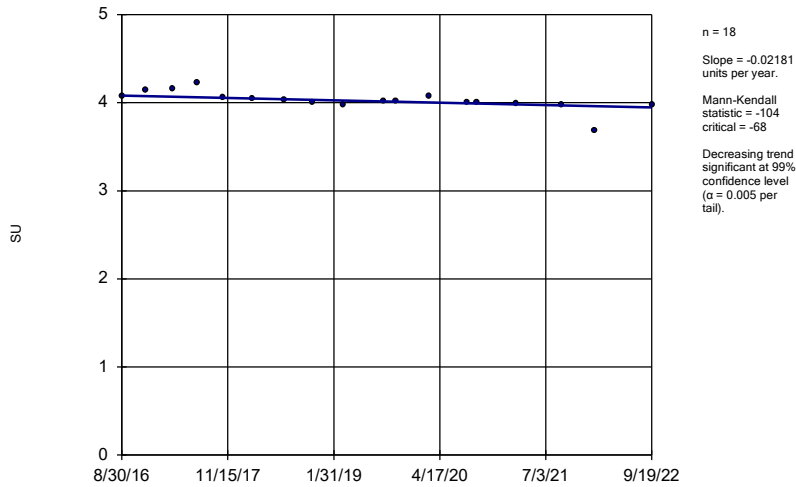
Constituent: pH, Field Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-5



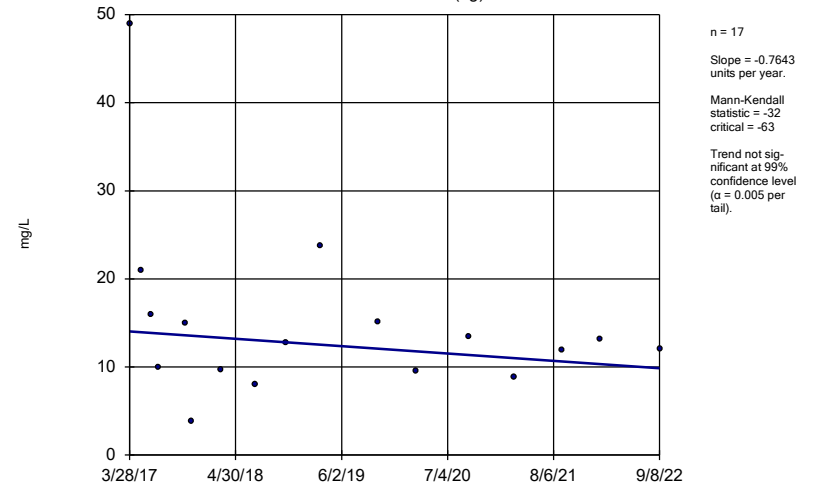
Constituent: pH, Field Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-9



Constituent: pH, Field Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

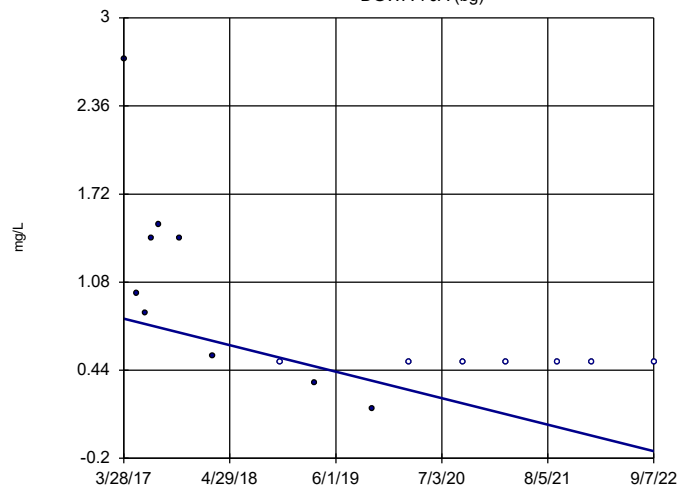
Sen's Slope Estimator  
DGWA-53 (bg)



Constituent: Sulfate as SO4 Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWA-70A (bg)

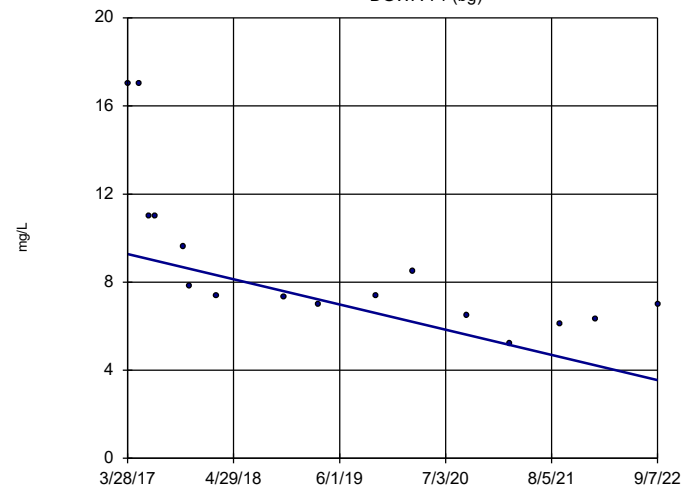


n = 16  
Slope = -0.1765  
units per year.  
Mann-Kendall  
statistic = -60  
critical = -58  
Decreasing trend  
significant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Sulfate as SO4 Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWA-71 (bg)

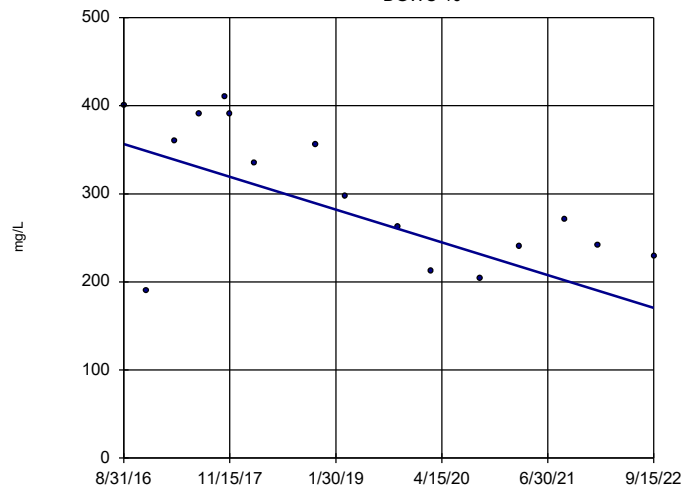


n = 16  
Slope = -1.051  
units per year.  
Mann-Kendall  
statistic = -88  
critical = -58  
Decreasing trend  
significant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Sulfate as SO4 Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-10

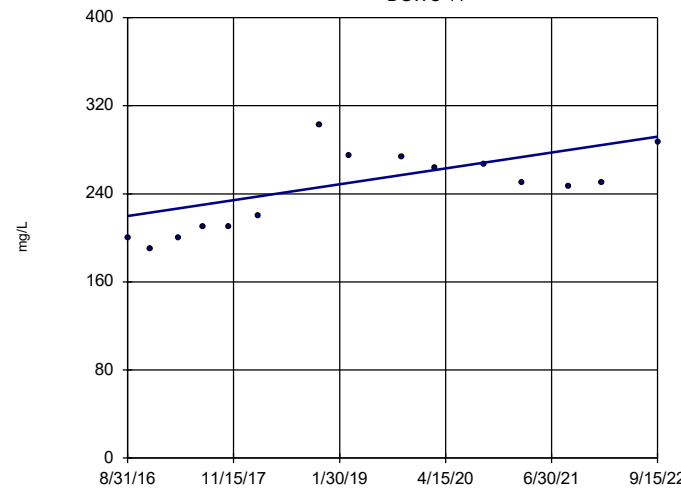


n = 16  
Slope = -30.79  
units per year.  
Mann-Kendall  
statistic = -57  
critical = -58  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Sulfate as SO4 Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

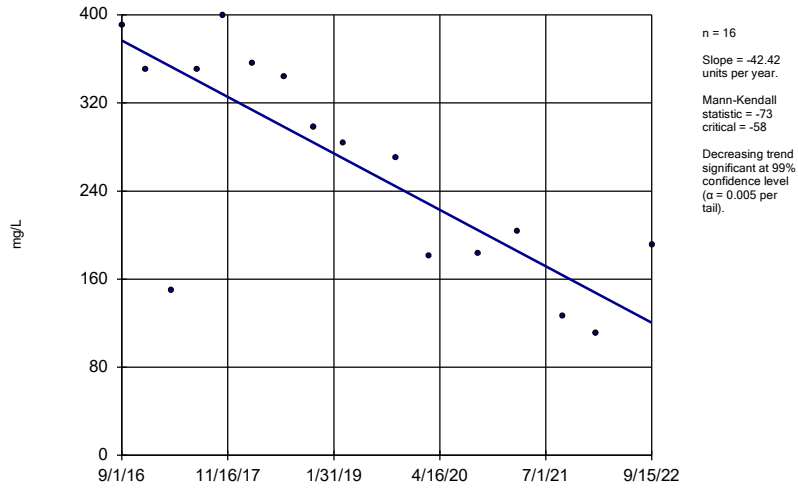
DGWC-11



n = 15  
Slope = 11.92  
units per year.  
Mann-Kendall  
statistic = 48  
critical = 53  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

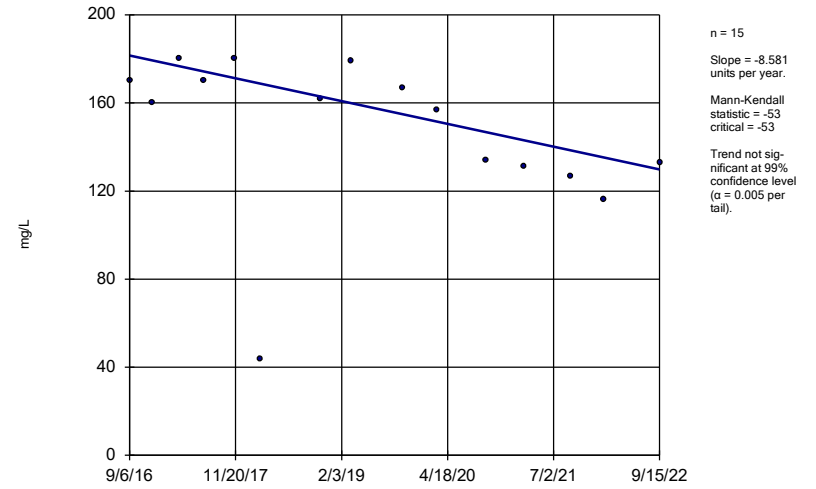
Constituent: Sulfate as SO4 Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-12



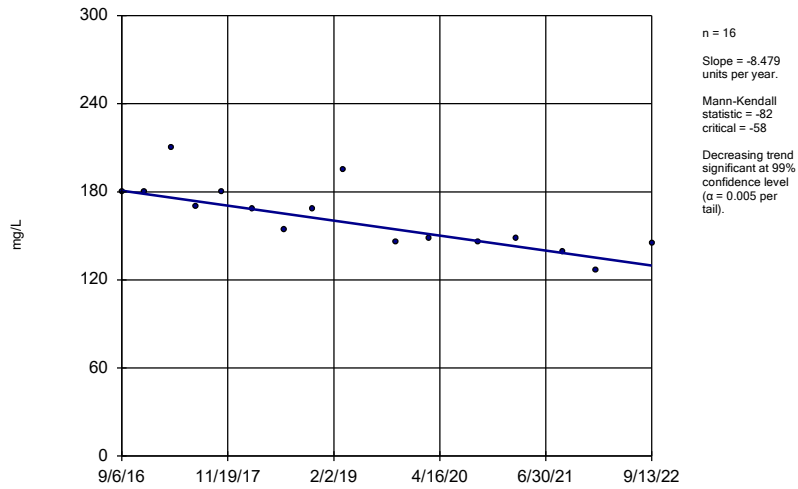
Constituent: Sulfate as SO4 Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-13



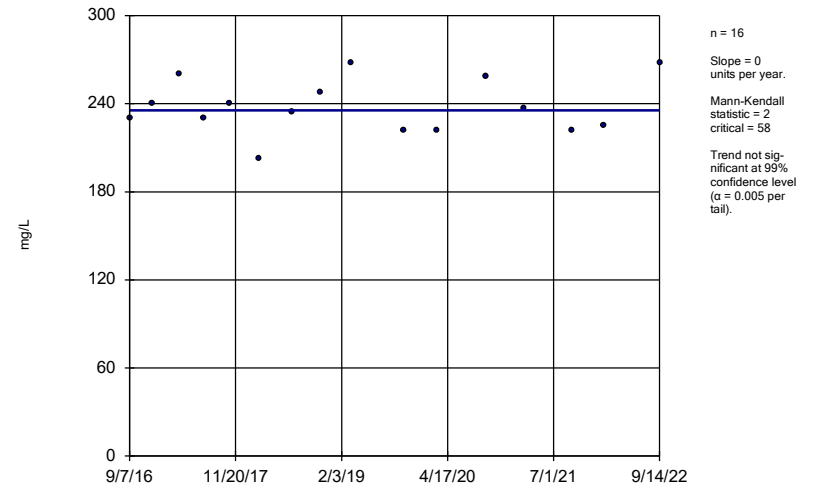
Constituent: Sulfate as SO4 Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-15



Constituent: Sulfate as SO4 Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

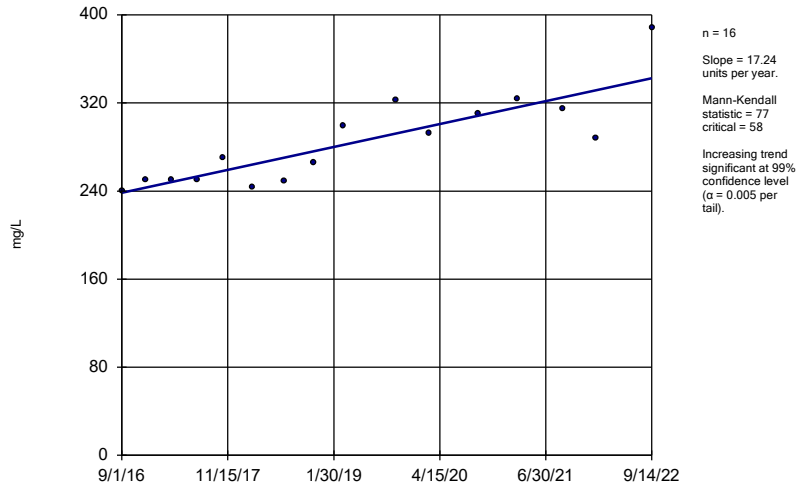
### Sen's Slope Estimator DGWC-17



Constituent: Sulfate as SO4 Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

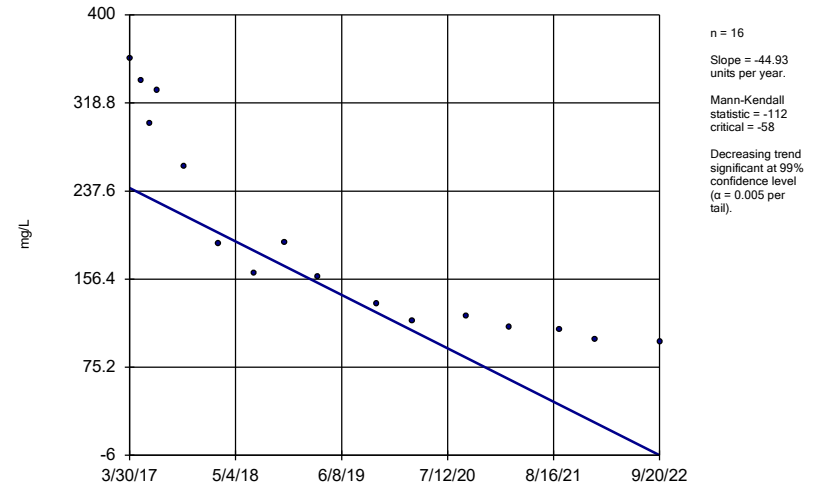
DGWC-19



Constituent: Sulfate as SO4 Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

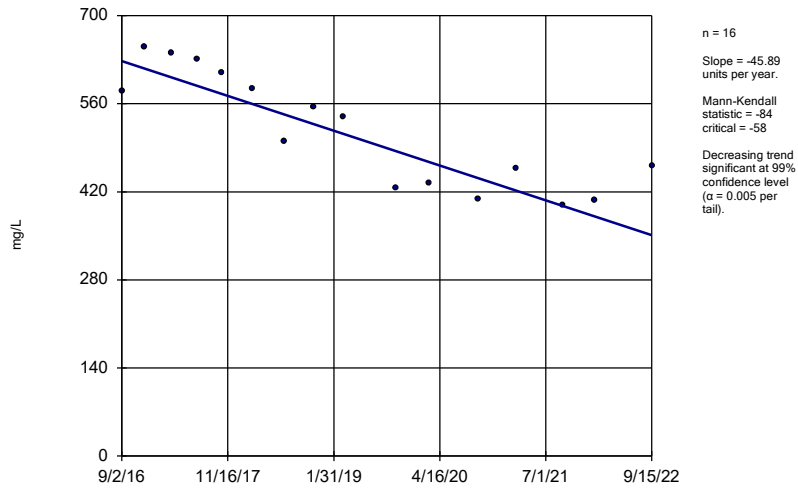
DGWC-2



Constituent: Sulfate as SO4 Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

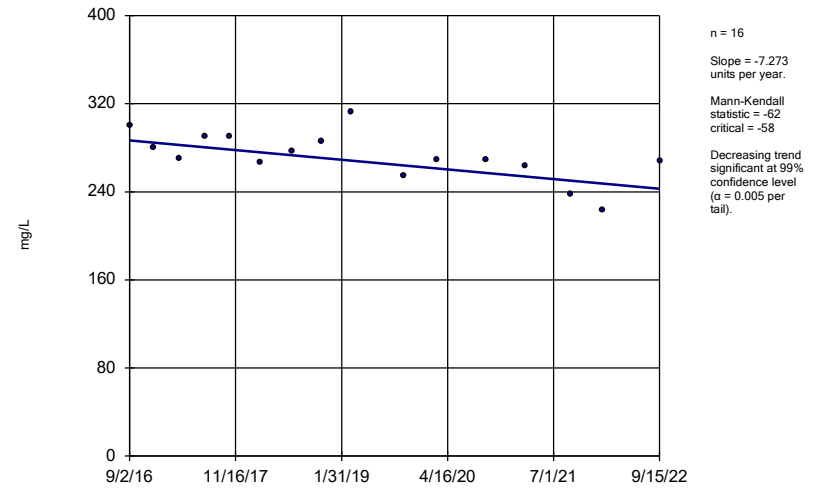
DGWC-20



Constituent: Sulfate as SO4 Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

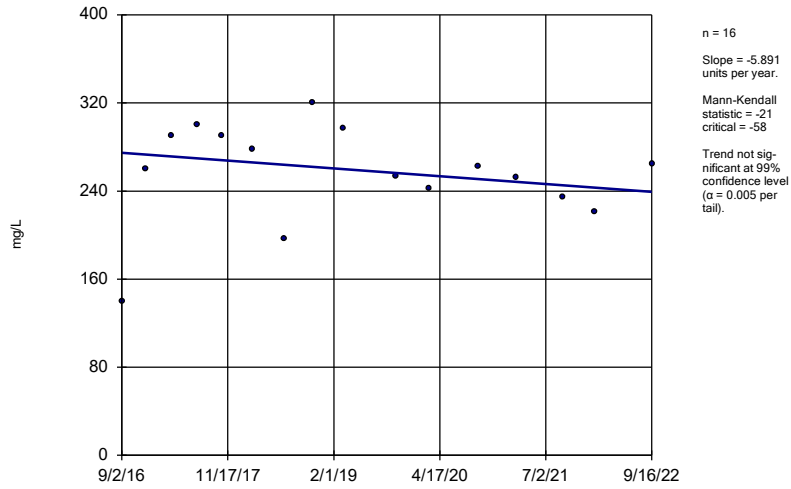
DGWC-21



Constituent: Sulfate as SO4 Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

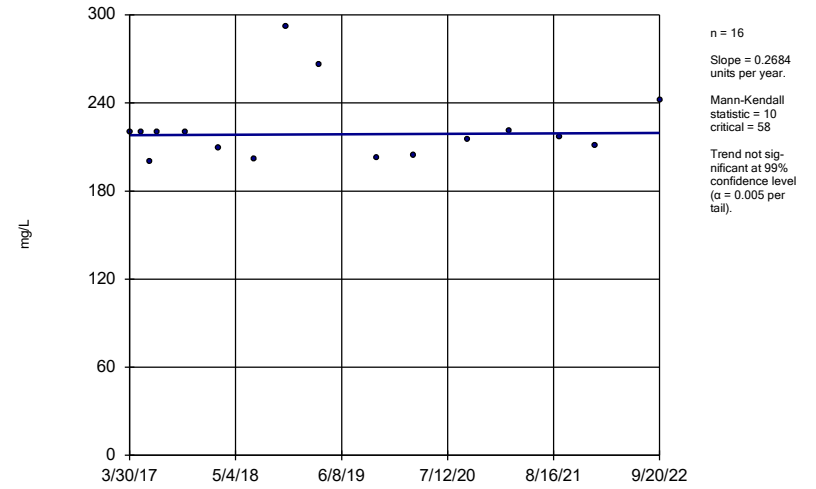
DGWC-22



Constituent: Sulfate as SO4 Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

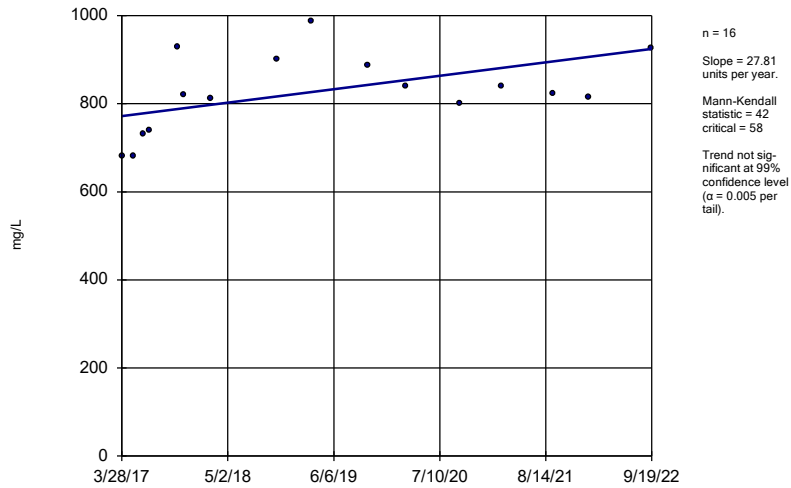
DGWC-23



Constituent: Sulfate as SO4 Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

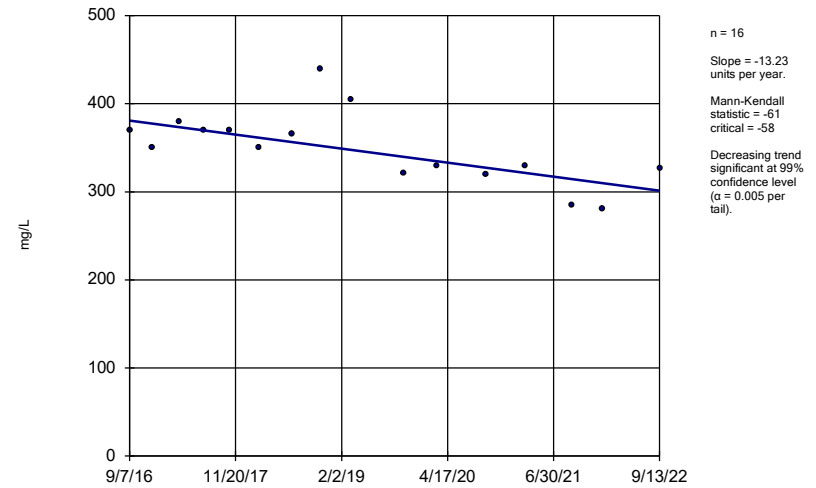
DGWC-4



Constituent: Sulfate as SO4 Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

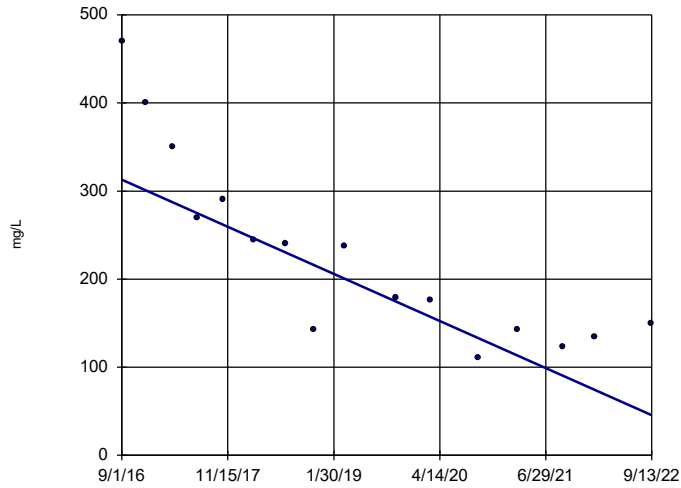
### Sen's Slope Estimator

DGWC-42



Constituent: Sulfate as SO4 Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

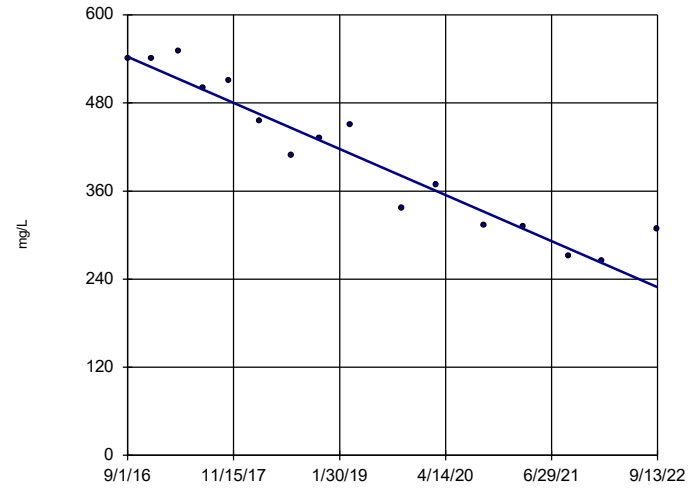
### Sen's Slope Estimator DGWC-47



n = 16  
 Slope = -44.25  
 units per year.  
 Mann-Kendall  
 statistic = -93  
 critical = -58  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Sulfate as SO4 Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test  
 Plant McDonough Client: Southern Company Data: McDonough AP

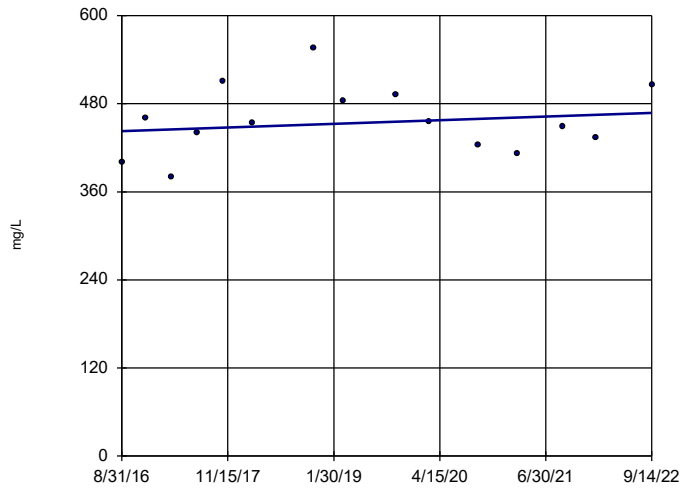
### Sen's Slope Estimator DGWC-48



n = 16  
 Slope = -52.03  
 units per year.  
 Mann-Kendall  
 statistic = -101  
 critical = -58  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Sulfate as SO4 Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test  
 Plant McDonough Client: Southern Company Data: McDonough AP

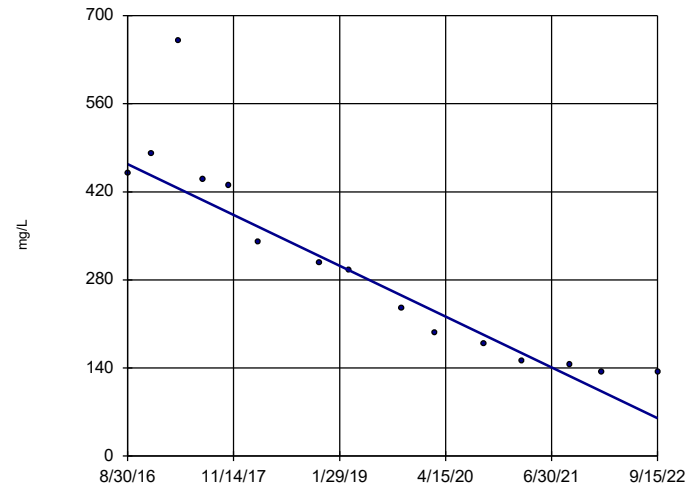
### Sen's Slope Estimator DGWC-5



n = 15  
 Slope = 4.117  
 units per year.  
 Mann-Kendall  
 statistic = 7  
 critical = 53  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Sulfate as SO4 Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-8

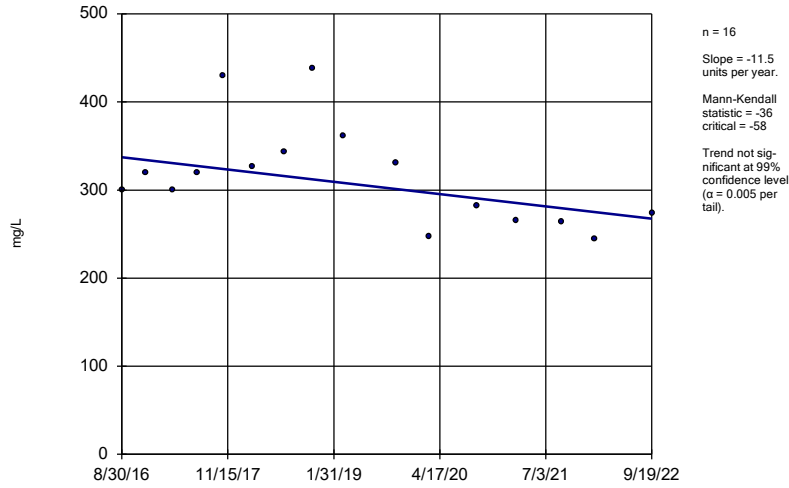


n = 15  
 Slope = -66.86  
 units per year.  
 Mann-Kendall  
 statistic = -98  
 critical = -53  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Sulfate as SO4 Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test  
 Plant McDonough Client: Southern Company Data: McDonough AP

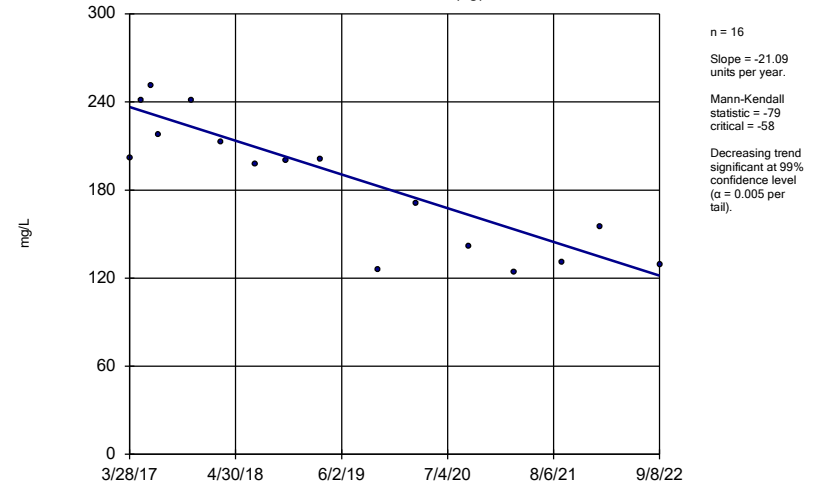


### Sen's Slope Estimator DGWC-9



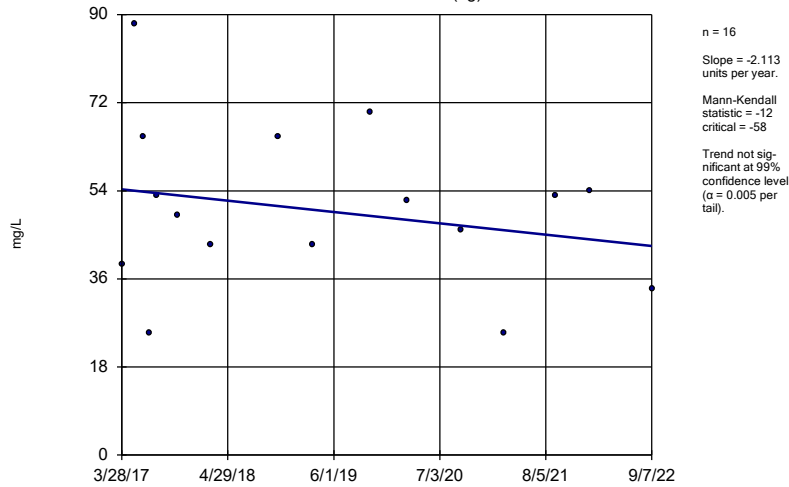
Constituent: Sulfate as SO4 Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWA-53 (bg)



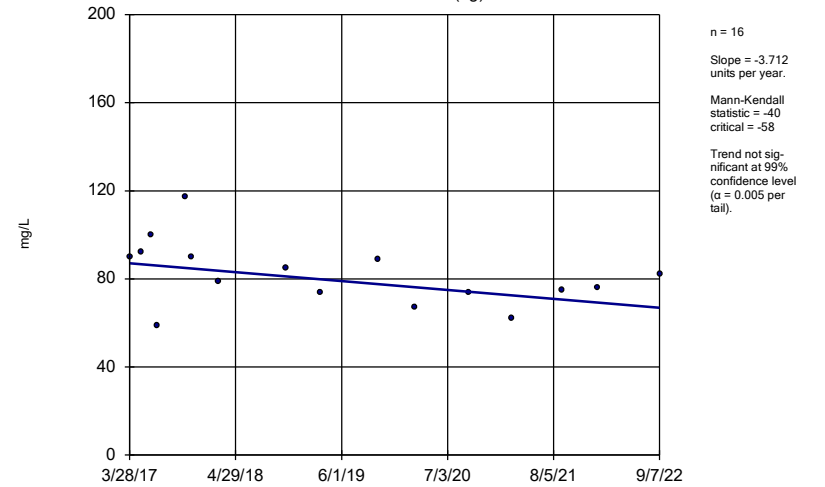
Constituent: Total Dissolved Solids [TDS] Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWA-70A (bg)

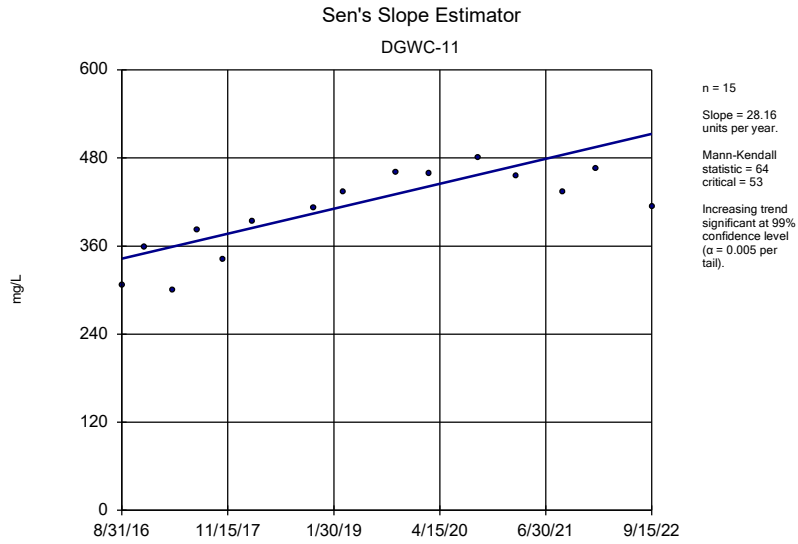


Constituent: Total Dissolved Solids [TDS] Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP

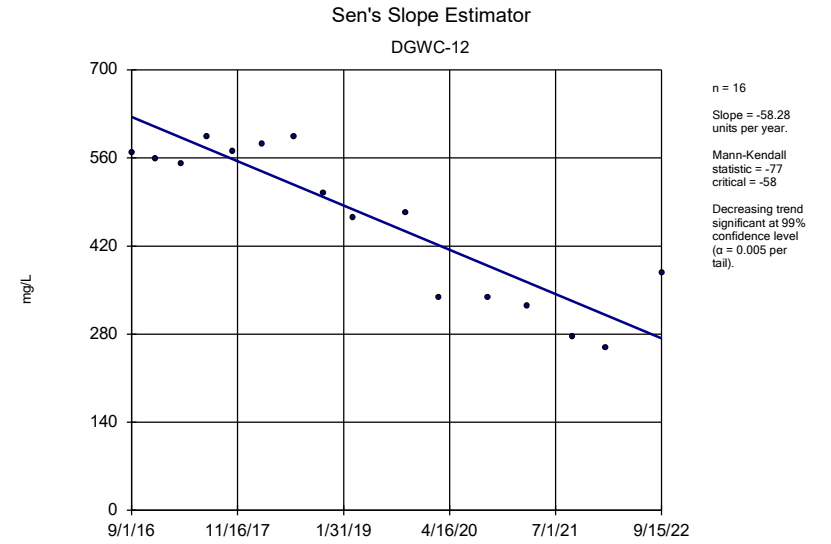
### Sen's Slope Estimator DGWA-71 (bg)



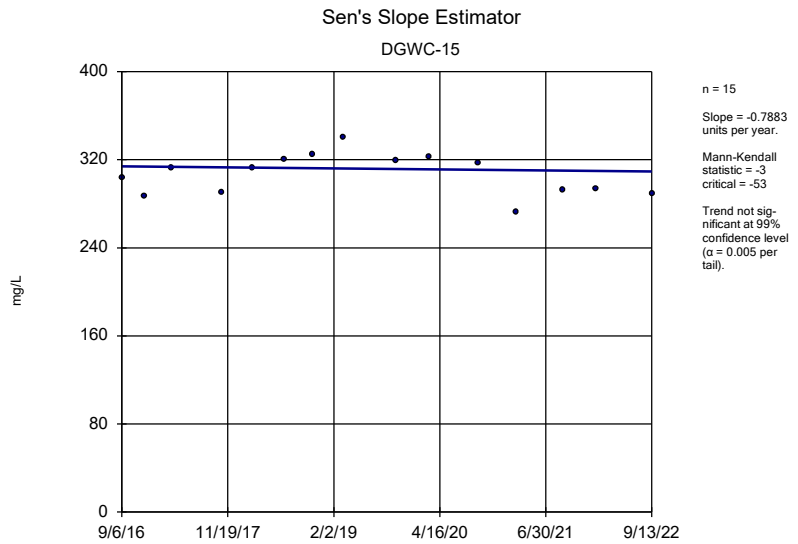
Constituent: Total Dissolved Solids [TDS] Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test  
Plant McDonough Client: Southern Company Data: McDonough AP



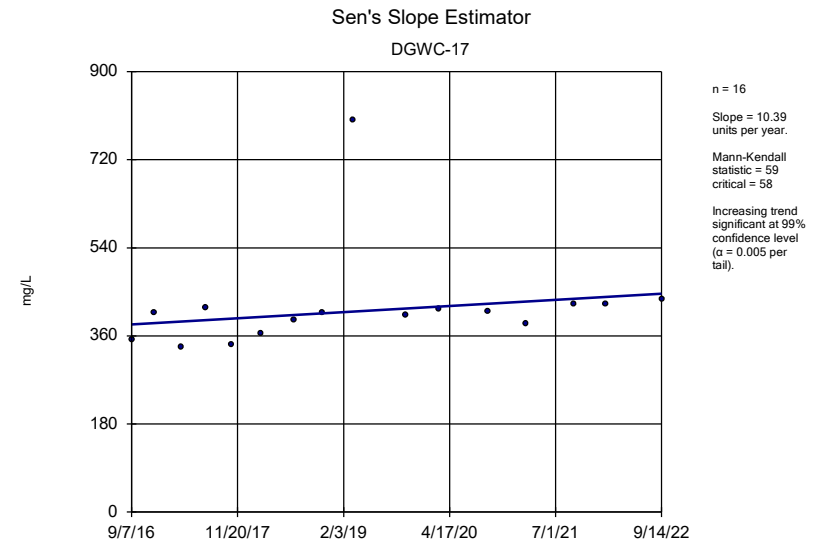
Constituent: Total Dissolved Solids [TDS] Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Te  
 Plant McDonough Client: Southern Company Data: McDonough AP



Constituent: Total Dissolved Solids [TDS] Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Te  
 Plant McDonough Client: Southern Company Data: McDonough AP



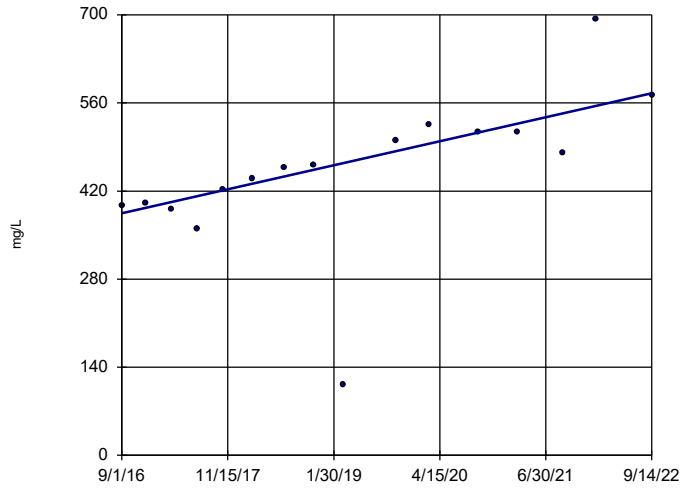
Constituent: Total Dissolved Solids [TDS] Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Te  
 Plant McDonough Client: Southern Company Data: McDonough AP



Constituent: Total Dissolved Solids [TDS] Analysis Run 10/19/2022 2:48 AM View: Appendix III - Trend Te  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

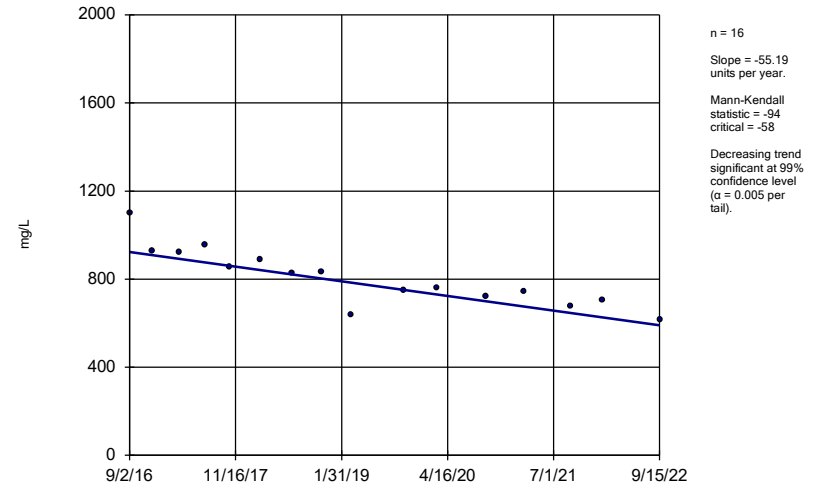
DGWC-19



Constituent: Total Dissolved Solids [TDS] Analysis Run 10/19/2022 2:48 AM View: Appendix III - Trend Te  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

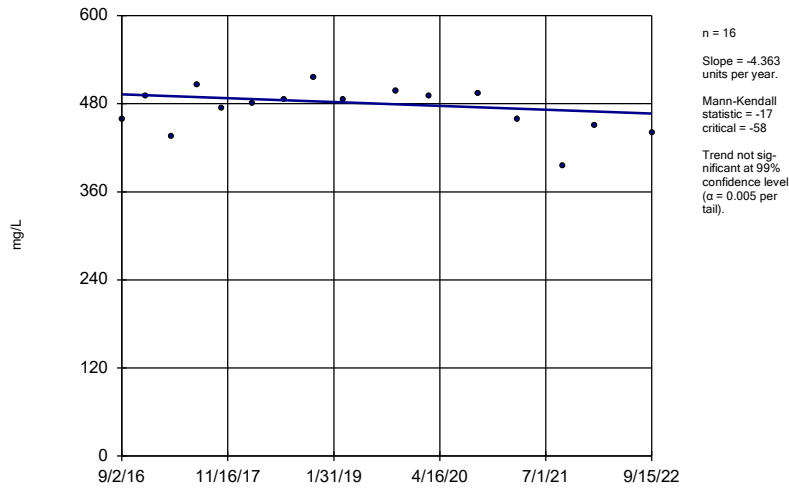
DGWC-20



Constituent: Total Dissolved Solids [TDS] Analysis Run 10/19/2022 2:48 AM View: Appendix III - Trend Te  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

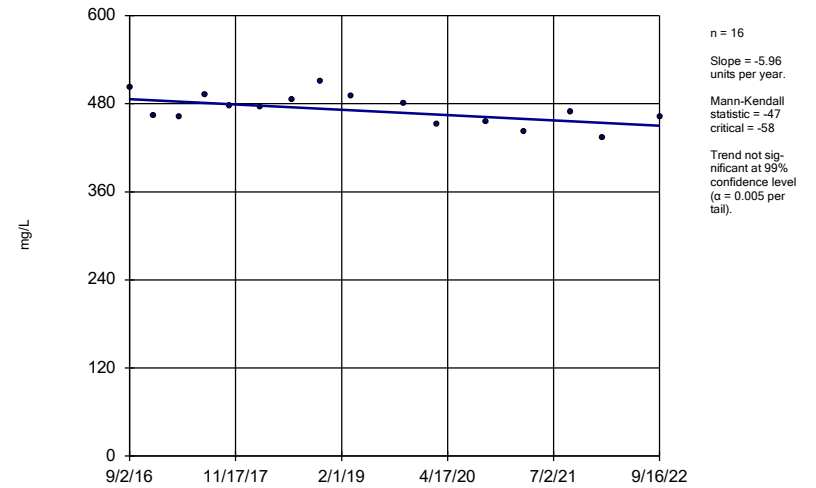
DGWC-21



Constituent: Total Dissolved Solids [TDS] Analysis Run 10/19/2022 2:48 AM View: Appendix III - Trend Te  
Plant McDonough Client: Southern Company Data: McDonough AP

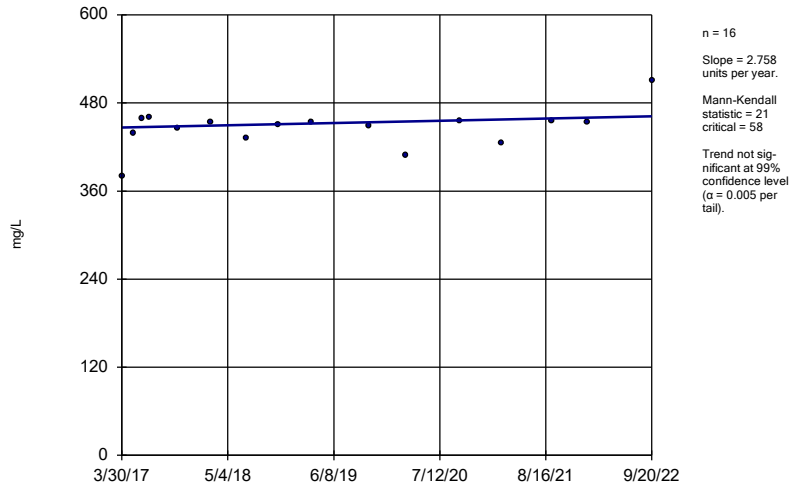
### Sen's Slope Estimator

DGWC-22



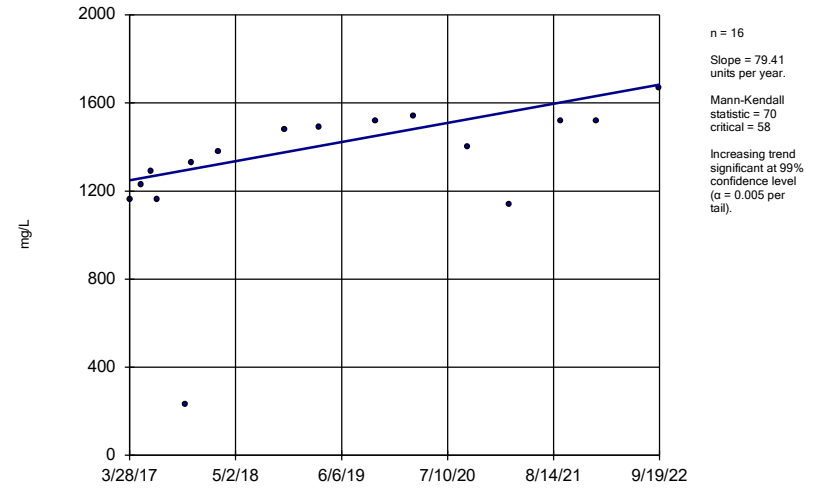
Constituent: Total Dissolved Solids [TDS] Analysis Run 10/19/2022 2:48 AM View: Appendix III - Trend Te  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-23



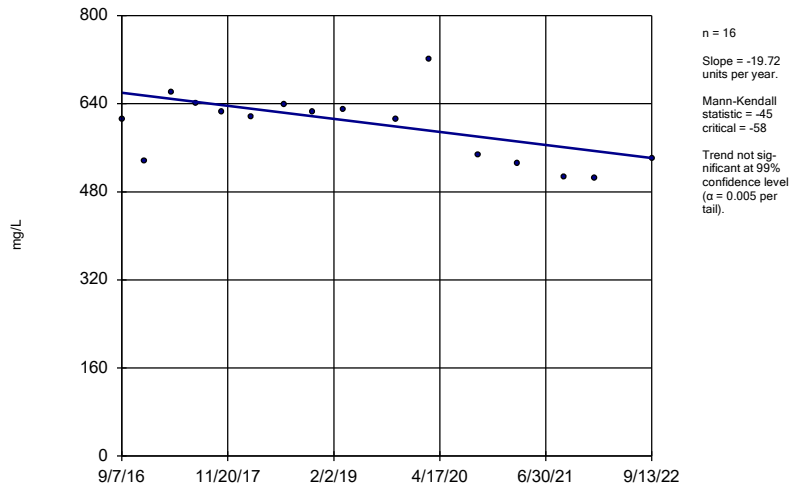
Constituent: Total Dissolved Solids [TDS] Analysis Run 10/19/2022 2:48 AM View: Appendix III - Trend Te  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-4



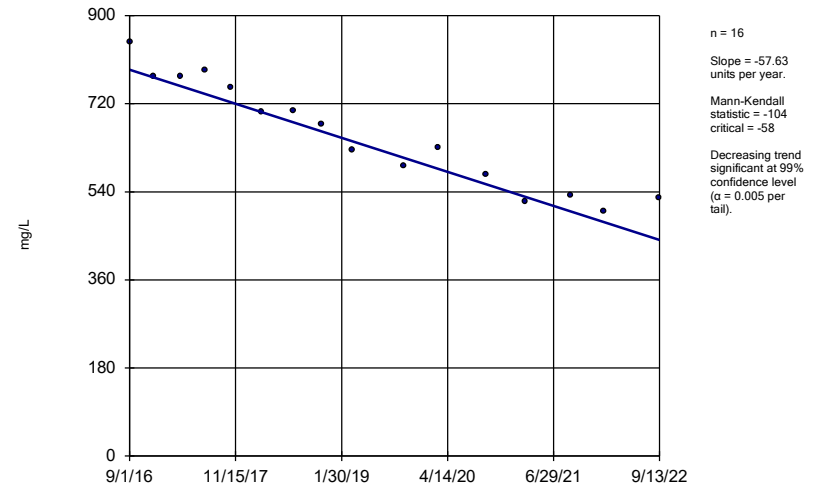
Constituent: Total Dissolved Solids [TDS] Analysis Run 10/19/2022 2:48 AM View: Appendix III - Trend Te  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-42



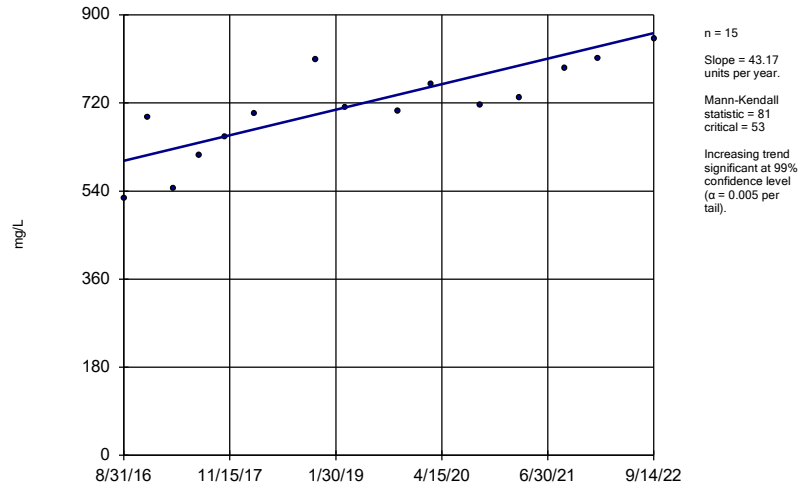
Constituent: Total Dissolved Solids [TDS] Analysis Run 10/19/2022 2:48 AM View: Appendix III - Trend Te  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-48



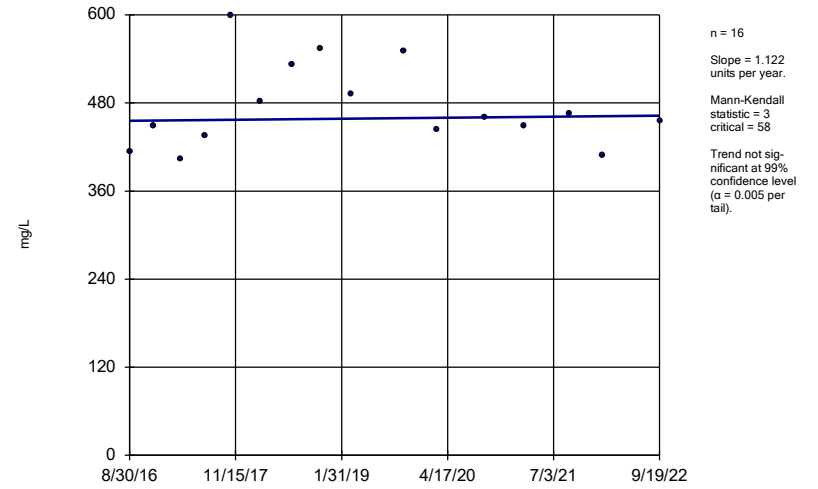
Constituent: Total Dissolved Solids [TDS] Analysis Run 10/19/2022 2:48 AM View: Appendix III - Trend Te  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-5



Constituent: Total Dissolved Solids [TDS] Analysis Run 10/19/2022 2:48 AM View: Appendix III - Trend Te  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-9



Constituent: Total Dissolved Solids [TDS] Analysis Run 10/19/2022 2:48 AM View: Appendix III - Trend Te  
Plant McDonough Client: Southern Company Data: McDonough AP

FIGURE F.

# Upper Tolerance Limits Summary Table

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/18/2022, 1:43 AM

Constituent	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	0.003	n/a	n/a	n/a	n/a	50	82	n/a	0.07694	NP Inter(NDs)
Arsenic (mg/L)	0.0054	n/a	n/a	n/a	n/a	50	74	n/a	0.07694	NP Inter(normality)
Barium (mg/L)	0.19	n/a	n/a	n/a	n/a	50	0	n/a	0.07694	NP Inter(normality)
Beryllium (mg/L)	0.0009	n/a	n/a	n/a	n/a	51	58.82	n/a	0.0731	NP Inter(normality)
Cadmium (mg/L)	0.0005	n/a	n/a	n/a	n/a	50	94	n/a	0.07694	NP Inter(NDs)
Chromium (mg/L)	0.005	n/a	n/a	n/a	n/a	49	65.31	n/a	0.08099	NP Inter(normality)
Cobalt (mg/L)	0.0322	n/a	n/a	n/a	n/a	50	40	n/a	0.07694	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	4.8	n/a	n/a	n/a	n/a	52	0	sqrt(x)	0.05	Inter
Fluoride (mg/L)	0.42	n/a	n/a	n/a	n/a	54	50	n/a	0.06267	NP Inter(normality)
Lead (mg/L)	0.001	n/a	n/a	n/a	n/a	50	82	n/a	0.07694	NP Inter(NDs)
Lithium (mg/L)	0.03	n/a	n/a	n/a	n/a	50	36	n/a	0.07694	NP Inter(normality)
Mercury (mg/L)	0.0002	n/a	n/a	n/a	n/a	50	84	n/a	0.07694	NP Inter(NDs)
Molybdenum (mg/L)	0.0409	n/a	n/a	n/a	n/a	50	64	n/a	0.07694	NP Inter(normality)
Selenium (mg/L)	0.005	n/a	n/a	n/a	n/a	50	100	n/a	0.07694	NP Inter(NDs)
Thallium (mg/L)	0.001	n/a	n/a	n/a	n/a	50	96	n/a	0.07694	NP Inter(NDs)

FIGURE G.



<b>PLANT MCDONOUGH ASH POND 2, 3, 4 GWPS TABLE</b>				
<b>Constituent Name</b>	<b>MCL</b>	<b>CCR-Rule Specified</b>	<b>Background Limit</b>	<b>GWPS</b>
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		4.8	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 11/22/2022, 10:01 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	DGWC-9	0.0284	0.01657	0.01	Yes	17	0.02248	0.009441	5.882	None	No	0.01	Param.
Beryllium (mg/L)	B-115D	0.01285	0.009146	0.004	Yes	4	0.011	0.0008165	0	None	No	0.01	Param.
Beryllium (mg/L)	B-92	0.02243	0.01277	0.004	Yes	5	0.0176	0.002881	0	None	No	0.01	Param.
Beryllium (mg/L)	B-93	0.017	0.0069	0.004	Yes	7	0.0147	0.003582	0	None	No	0.008	NP (normality)
Beryllium (mg/L)	DGWC-10	0.009022	0.005928	0.004	Yes	16	0.007475	0.002377	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-47	0.01243	0.009111	0.004	Yes	17	0.01077	0.002649	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-48	0.008951	0.007416	0.004	Yes	17	0.008218	0.001265	0	None	x^(1/3)	0.01	Param.
Beryllium (mg/L)	DGWC-5	0.008813	0.006512	0.004	Yes	16	0.007663	0.001768	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-9	0.005802	0.004939	0.004	Yes	17	0.005371	0.0006881	0	None	No	0.01	Param.
Cobalt (mg/L)	B-104D	0.2056	0.09109	0.032	Yes	6	0.1483	0.04167	0	None	No	0.01	Param.
Cobalt (mg/L)	B-115D	0.3375	0.1875	0.032	Yes	4	0.2625	0.03304	0	None	No	0.01	Param.
Cobalt (mg/L)	B-56	0.05346	0.04121	0.032	Yes	6	0.04733	0.004457	0	None	No	0.01	Param.
Cobalt (mg/L)	B-63	0.05067	0.03805	0.032	Yes	7	0.04436	0.005313	0	None	No	0.01	Param.
Cobalt (mg/L)	B-93	0.06739	0.05889	0.032	Yes	7	0.06314	0.003579	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-10	0.193	0.076	0.032	Yes	16	0.1441	0.05294	0	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-19	0.05329	0.04968	0.032	Yes	17	0.05148	0.002882	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-20	0.6845	0.4878	0.032	Yes	17	0.5919	0.1635	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	DGWC-47	0.369	0.2475	0.032	Yes	17	0.3083	0.09696	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-48	0.4925	0.3864	0.032	Yes	17	0.4394	0.08465	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-8	0.08147	0.0369	0.032	Yes	16	0.05919	0.03425	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-9	0.208	0.1515	0.032	Yes	17	0.1797	0.04503	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)	B-115D	0.09241	0.07609	0.04	Yes	4	0.08425	0.003594	0	None	No	0.01	Param.
Lithium (mg/L)	B-120D	0.09244	0.06756	0.04	Yes	4	0.08	0.005477	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-47	0.07239	0.05682	0.04	Yes	17	0.06461	0.01243	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-48	0.1245	0.1056	0.04	Yes	17	0.1151	0.01511	0	None	No	0.01	Param.

# Confidence Intervals - All Results

Plant McDonough    Client: Southern Company    Data: McDonough AP    Printed 11/22/2022, 10:01 AM

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	6	0.0025	0.0007849	66.67	None	No	0.0155	NP (NDs)
Antimony (mg/L)	B-101D	0.00195	0.0001053	0.006	No	5	0.001422	0.00104	20	Kaplan-Meier	No	0.01	Param.
Antimony (mg/L)	B-102D	0.003	0.0016	0.006	No	6	0.002767	0.0005715	83.33	Kaplan-Meier	No	0.0155	NP (NDs)
Antimony (mg/L)	B-104D	0.00106	0.0005099	0.006	No	6	0.001507	0.001169	33.33	Kaplan-Meier	ln(x)	0.01	Param.
Antimony (mg/L)	B-106D	0.003	0.00048	0.006	No	5	0.002496	0.001127	80	None	No	0.031	NP (NDs)
Antimony (mg/L)	B-109D	0.004	0.00042	0.006	No	5	0.002252	0.001543	40	None	No	0.031	NP (selected)
Antimony (mg/L)	B-111D	0.003	0.0006	0.006	No	6	0.0026	0.0009798	83.33	None	No	0.0155	NP (NDs)
Antimony (mg/L)	B-120D	0.003	0.00029	0.006	No	4	0.002323	0.001355	75	None	No	0.0625	NP (NDs)
Antimony (mg/L)	B-56	0.003	0.0011	0.006	No	6	0.002683	0.0007757	83.33	None	No	0.0155	NP (NDs)
Antimony (mg/L)	B-62	0.003	0.00046	0.006	No	9	0.002718	0.0008467	88.89	None	No	0.002	NP (NDs)
Antimony (mg/L)	B-63	0.003	0.00066	0.006	No	6	0.00261	0.0009553	83.33	None	No	0.0155	NP (NDs)
Antimony (mg/L)	B-77	0.003	0.00036	0.006	No	8	0.002053	0.00131	62.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	B-93	0.003	0.00096	0.006	No	6	0.002393	0.0009501	66.67	None	No	0.0155	NP (NDs)
Antimony (mg/L)	DGWC-10	0.003	0.0021	0.006	No	16	0.002944	0.000225	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-12	0.003	0.0003	0.006	No	18	0.00285	0.0006364	94.44	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-14	0.003	0.0011	0.006	No	17	0.002888	0.0004608	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-15	0.003	0.00073	0.006	No	17	0.002709	0.0008233	88.24	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-17	0.003	0.00045	0.006	No	17	0.00285	0.0006185	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-19	0.003	0.00036	0.006	No	17	0.002845	0.0006403	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-2	0.003	0.0006	0.006	No	17	0.002859	0.0005821	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-21	0.003	0.0013	0.006	No	17	0.0029	0.0004123	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-23	0.003	0.0007	0.006	No	17	0.002865	0.0005578	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-4	0.003	0.0008	0.006	No	16	0.002554	0.0009598	81.25	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-47	0.003	0.0012	0.006	No	17	0.002894	0.0004366	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-48	0.003	0.0018	0.006	No	17	0.002776	0.00068	88.24	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-5	0.003	0.0015	0.006	No	16	0.002739	0.0007457	87.5	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-8	0.003	0.00046	0.006	No	16	0.002841	0.000635	93.75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	B-101D	0.005	0.0017	0.01	No	5	0.00434	0.001476	80	None	No	0.031	NP (NDs)
Arsenic (mg/L)	B-104D	0.003563	0.001776	0.01	No	6	0.003817	0.001393	50	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	B-109D	0.005	0.0026	0.01	No	5	0.00452	0.001073	80	None	No	0.031	NP (NDs)
Arsenic (mg/L)	B-111D	0.005	0.0022	0.01	No	6	0.003733	0.001408	50	None	No	0.0155	NP (normality)
Arsenic (mg/L)	B-115D	0.003454	0.001412	0.01	No	4	0.003075	0.00136	25	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	B-120D	0.005	0.0016	0.01	No	4	0.00415	0.0017	75	Kaplan-Meier	No	0.0625	NP (NDs)
Arsenic (mg/L)	B-56	0.004698	0.00253	0.01	No	6	0.003917	0.0009109	16.67	Kaplan-Meier	x^2	0.01	Param.
Arsenic (mg/L)	B-62	0.005	0.0033	0.01	No	9	0.004811	0.0005667	88.89	Kaplan-Meier	No	0.002	NP (NDs)
Arsenic (mg/L)	B-63	0.005	0.0022	0.01	No	6	0.004533	0.001143	83.33	None	No	0.0155	NP (NDs)
Arsenic (mg/L)	B-77	0.005	0.002	0.01	No	8	0.003425	0.001353	37.5	None	No	0.004	NP (normality)
Arsenic (mg/L)	B-82	0.005	0.003	0.01	No	8	0.00475	0.0007071	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	B-83	0.005	0.0014	0.01	No	7	0.004486	0.001361	85.71	None	No	0.008	NP (NDs)
Arsenic (mg/L)	B-93	0.002828	0.001247	0.01	No	6	0.0035	0.001702	50	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	DGWC-10	0.006739	0.003524	0.01	No	16	0.005131	0.002471	6.25	None	No	0.01	Param.
Arsenic (mg/L)	DGWC-12	0.005	0.00063	0.01	No	18	0.004513	0.001418	88.89	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-14	0.005	0.00039	0.01	No	17	0.004729	0.001118	94.12	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-15	0.005	0.0013	0.01	No	17	0.004267	0.001638	82.35	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-17	0.005	0.0011	0.01	No	17	0.003372	0.002014	58.82	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-19	0.00192	0.0009543	0.01	No	17	0.002421	0.001611	23.53	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	DGWC-2	0.005	0.0025	0.01	No	17	0.004458	0.001241	82.35	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-20	0.01651	0.008455	0.01	No	17	0.01248	0.006428	0	None	No	0.01	Param.
Arsenic (mg/L)	DGWC-22	0.005	0.001	0.01	No	17	0.004765	0.0009701	94.12	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-4	0.005	0.0008	0.01	No	16	0.003931	0.001916	75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-42	0.005	0.0011	0.01	No	17	0.004518	0.001363	88.24	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-47	0.002756	0.001467	0.01	No	17	0.002824	0.001533	23.53	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	DGWC-48	0.005	0.0012	0.01	No	17	0.003417	0.001968	58.82	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-5	0.008917	0.002832	0.01	No	16	0.007744	0.009484	12.5	None	ln(x)	0.01	Param.
Arsenic (mg/L)	DGWC-8	0.005	0.0012	0.01	No	16	0.003854	0.00177	68.75	None	No	0.01	NP (NDs)

# Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/22/2022, 10:01 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
<b>Arsenic (mg/L)</b>	<b>DGWC-9</b>	<b>0.0284</b>	<b>0.01657</b>	<b>0.01</b>	<b>Yes</b>	<b>17</b>	<b>0.02248</b>	<b>0.009441</b>	<b>5.882</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Barium (mg/L)	B-100	0.02353	0.01731	2	No	6	0.02067	0.002875	0	None	x^4	0.01	Param.
Barium (mg/L)	B-101D	0.076	0.062	2	No	5	0.0682	0.007155	0	None	No	0.031	NP (normality)
Barium (mg/L)	B-102D	0.02392	0.01908	2	No	6	0.0215	0.001761	0	None	No	0.01	Param.
Barium (mg/L)	B-104D	0.026	0.021	2	No	6	0.0225	0.002074	0	None	No	0.0155	NP (normality)
Barium (mg/L)	B-106D	0.0222	0.0194	2	No	5	0.0208	0.0008367	0	None	No	0.01	Param.
Barium (mg/L)	B-107D	0.1456	0.04876	2	No	5	0.0972	0.02891	0	None	No	0.01	Param.
Barium (mg/L)	B-108D	0.06692	0.05148	2	No	5	0.0592	0.004604	0	None	No	0.01	Param.
Barium (mg/L)	B-109D	0.06745	0.02078	2	No	5	0.048	0.01528	0	None	x^2	0.01	Param.
Barium (mg/L)	B-111D	0.04313	0.02387	2	No	6	0.0335	0.007007	0	None	No	0.01	Param.
Barium (mg/L)	B-115D	0.01963	0.01187	2	No	4	0.01575	0.001708	0	None	No	0.01	Param.
Barium (mg/L)	B-120D	0.05224	0.009261	2	No	4	0.03075	0.009465	0	None	No	0.01	Param.
Barium (mg/L)	B-56	0.03046	0.02554	2	No	6	0.028	0.001789	0	None	No	0.01	Param.
Barium (mg/L)	B-62	0.02611	0.01944	2	No	9	0.02278	0.003456	0	None	No	0.01	Param.
Barium (mg/L)	B-63	0.03126	0.01807	2	No	6	0.02467	0.004803	0	None	No	0.01	Param.
Barium (mg/L)	B-66	0.02089	0.01578	2	No	6	0.01833	0.001862	0	None	No	0.01	Param.
Barium (mg/L)	B-77	0.1246	0.09166	2	No	8	0.1081	0.01553	0	None	No	0.01	Param.
Barium (mg/L)	B-82	0.03001	0.02027	2	No	7	0.02514	0.0041	0	None	No	0.01	Param.
Barium (mg/L)	B-83	0.044	0.02231	2	No	7	0.03257	0.01095	0	None	ln(x)	0.01	Param.
Barium (mg/L)	B-88	0.02288	0.015	2	No	6	0.01917	0.002858	0	None	x^2	0.01	Param.
Barium (mg/L)	B-93	0.0201	0.01423	2	No	6	0.01717	0.002137	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-10	0.02872	0.02237	2	No	16	0.02554	0.004884	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-11	0.06496	0.05421	2	No	16	0.05959	0.008265	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-12	0.03435	0.0249	2	No	18	0.03004	0.008517	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	DGWC-13	0.03235	0.02732	2	No	16	0.02888	0.006884	6.25	None	x^3	0.01	Param.
Barium (mg/L)	DGWC-14	0.06278	0.05846	2	No	17	0.06062	0.003446	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-15	0.04986	0.04375	2	No	17	0.04681	0.00487	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-17	0.05427	0.03952	2	No	17	0.04689	0.01177	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-19	0.02563	0.02224	2	No	17	0.02394	0.002698	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-2	0.02255	0.02124	2	No	17	0.02188	0.001054	0	None	x^2	0.01	Param.
Barium (mg/L)	DGWC-20	0.01578	0.009998	2	No	17	0.01289	0.004613	5.882	None	No	0.01	Param.
Barium (mg/L)	DGWC-21	0.0272	0.024	2	No	17	0.02573	0.001551	0	None	No	0.01	NP (normality)
Barium (mg/L)	DGWC-22	0.03693	0.03136	2	No	17	0.03415	0.004449	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-23	0.02336	0.01875	2	No	17	0.02118	0.003931	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	DGWC-4	0.03584	0.03236	2	No	16	0.0341	0.002676	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-42	0.01995	0.01598	2	No	17	0.01796	0.003173	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-47	0.01982	0.01629	2	No	17	0.01805	0.002812	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-48	0.0155	0.013	2	No	17	0.01371	0.0009565	0	None	No	0.01	NP (normality)
Barium (mg/L)	DGWC-5	0.01829	0.0167	2	No	15	0.01749	0.001173	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-8	0.03641	0.02521	2	No	16	0.03081	0.008607	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-9	0.01629	0.015	2	No	17	0.01565	0.001031	0	None	No	0.01	Param.
Beryllium (mg/L)	B-100	0.0005956	0.0003544	0.004	No	6	0.000475	0.00008781	0	None	No	0.01	Param.
Beryllium (mg/L)	B-101D	0.00008447	0.00004593	0.004	No	5	0.0000652	0.0000115	0	None	No	0.01	Param.
Beryllium (mg/L)	B-102D	0.001386	0.0009811	0.004	No	6	0.001183	0.0001472	0	None	No	0.01	Param.
Beryllium (mg/L)	B-104D	0.001558	0.001109	0.004	No	6	0.001333	0.0001633	0	None	No	0.01	Param.
Beryllium (mg/L)	B-106D	0.0001368	0.0001032	0.004	No	5	0.00012	0.00001	0	None	No	0.01	Param.
Beryllium (mg/L)	B-107D	0.00025	0.00005	0.004	No	5	0.00021	0.00008944	80	None	No	0.031	NP (NDs)
Beryllium (mg/L)	B-109D	0.00025	0.000059	0.004	No	5	0.0001078	0.00007994	20	None	No	0.031	NP (normality)
<b>Beryllium (mg/L)</b>	<b>B-115D</b>	<b>0.01285</b>	<b>0.009146</b>	<b>0.004</b>	<b>Yes</b>	<b>4</b>	<b>0.011</b>	<b>0.0008165</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Beryllium (mg/L)	B-120D	0.0011	0.00085	0.004	No	4	0.00098	0.0001388	0	None	No	0.0625	NP (normality)
Beryllium (mg/L)	B-56	0.00132	0.001113	0.004	No	6	0.001217	0.00007528	0	None	No	0.01	Param.
Beryllium (mg/L)	B-62	0.0001362	0.00009267	0.004	No	10	0.0001448	0.00005955	20	Kaplan-Meier	sqrt(x)	0.01	Param.
Beryllium (mg/L)	B-63	0.0004849	0.0002851	0.004	No	8	0.000385	0.00009426	12.5	None	No	0.01	Param.
Beryllium (mg/L)	B-77	0.0001381	0.00005882	0.004	No	8	0.000155	0.00008448	37.5	Kaplan-Meier	sqrt(x)	0.01	Param.
Beryllium (mg/L)	B-82	0.002028	0.0012	0.004	No	7	0.001614	0.0003485	0	None	No	0.01	Param.

# Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/22/2022, 10:01 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	B-83	0.0005687	0.0002575	0.004	No	7	0.0004071	0.0001421	0	None	sqrt(x)	0.01	Param.
Beryllium (mg/L)	B-88	0.003921	0.0003565	0.004	No	6	0.001872	0.00159	0	None	sqrt(x)	0.01	Param.
<b>Beryllium (mg/L)</b>	<b>B-92</b>	<b>0.02243</b>	<b>0.01277</b>	<b>0.004</b>	<b>Yes</b>	<b>5</b>	<b>0.0176</b>	<b>0.002881</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Beryllium (mg/L)</b>	<b>B-93</b>	<b>0.017</b>	<b>0.0069</b>	<b>0.004</b>	<b>Yes</b>	<b>7</b>	<b>0.0147</b>	<b>0.003582</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.008</b>	<b>NP (normality)</b>
Beryllium (mg/L)	B-97	0.001898	0.0005068	0.004	No	6	0.001508	0.000628	16.67	Kaplan-Meier	x^3	0.01	Param.
Beryllium (mg/L)	B-98	0.00087	0.000062	0.004	No	6	0.0004167	0.0003078	50	None	No	0.0155	NP (selected)
<b>Beryllium (mg/L)</b>	<b>DGWC-10</b>	<b>0.009022</b>	<b>0.005928</b>	<b>0.004</b>	<b>Yes</b>	<b>16</b>	<b>0.007475</b>	<b>0.002377</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Beryllium (mg/L)	DGWC-11	0.00025	0.00013	0.004	No	16	0.00027	0.0003324	43.75	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-12	0.00025	0.00016	0.004	No	18	0.0002777	0.0003179	16.67	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-13	0.00025	0.000073	0.004	No	16	0.0002519	0.000344	56.25	None	No	0.01	NP (NDs)
Beryllium (mg/L)	DGWC-15	0.0015	0.00022	0.004	No	17	0.0003105	0.0003101	88.24	None	No	0.01	NP (NDs)
Beryllium (mg/L)	DGWC-17	0.0006196	0.0004888	0.004	No	17	0.0005447	0.0001249	11.76	None	x^2	0.01	Param.
Beryllium (mg/L)	DGWC-19	0.002008	0.00171	0.004	No	17	0.001797	0.0004339	11.76	None	x^3	0.01	Param.
Beryllium (mg/L)	DGWC-20	0.005273	0.002486	0.004	No	17	0.003879	0.002224	11.76	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-21	0.0002	0.00015	0.004	No	17	0.0002488	0.0003249	11.76	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-22	0.00023	0.00014	0.004	No	17	0.0002506	0.0003242	11.76	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-23	0.0005	0.00038	0.004	No	17	0.0004912	0.0002804	11.76	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-4	0.00033	0.00019	0.004	No	16	0.0003069	0.0003249	12.5	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-42	0.002711	0.002083	0.004	No	17	0.002326	0.0006783	5.882	None	x^2	0.01	Param.
<b>Beryllium (mg/L)</b>	<b>DGWC-47</b>	<b>0.01243</b>	<b>0.009111</b>	<b>0.004</b>	<b>Yes</b>	<b>17</b>	<b>0.01077</b>	<b>0.002649</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Beryllium (mg/L)</b>	<b>DGWC-48</b>	<b>0.008951</b>	<b>0.007416</b>	<b>0.004</b>	<b>Yes</b>	<b>17</b>	<b>0.008218</b>	<b>0.001265</b>	<b>0</b>	<b>None</b>	<b>x^(1/3)</b>	<b>0.01</b>	<b>Param.</b>
<b>Beryllium (mg/L)</b>	<b>DGWC-5</b>	<b>0.008813</b>	<b>0.006512</b>	<b>0.004</b>	<b>Yes</b>	<b>16</b>	<b>0.007663</b>	<b>0.001768</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Beryllium (mg/L)	DGWC-8	0.002763	0.001459	0.004	No	16	0.002174	0.001104	6.25	None	sqrt(x)	0.01	Param.
<b>Beryllium (mg/L)</b>	<b>DGWC-9</b>	<b>0.005802</b>	<b>0.004939</b>	<b>0.004</b>	<b>Yes</b>	<b>17</b>	<b>0.005371</b>	<b>0.0006881</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cadmium (mg/L)	B-100	0.00059	0.00027	0.005	No	6	0.00038	0.0001628	0	None	No	0.0155	NP (normality)
Cadmium (mg/L)	B-101D	0.0005	0.00011	0.005	No	5	0.000422	0.0001744	80	None	No	0.031	NP (NDs)
Cadmium (mg/L)	B-102D	0.0009434	0.0006999	0.005	No	6	0.0008217	0.00008864	0	None	No	0.01	Param.
Cadmium (mg/L)	B-106D	0.0002669	0.0001181	0.005	No	5	0.000254	0.0001445	20	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	B-115D	0.0005302	0.00008476	0.005	No	4	0.0003075	0.00009811	0	None	No	0.01	Param.
Cadmium (mg/L)	B-120D	0.0013	0.00084	0.005	No	4	0.00107	0.0001013	0	None	No	0.01	Param.
Cadmium (mg/L)	B-56	0.0003025	0.0002375	0.005	No	6	0.00027	0.00002366	0	None	No	0.01	Param.
Cadmium (mg/L)	B-63	0.0005	0.00014	0.005	No	6	0.000345	0.0001734	50	None	No	0.0155	NP (normality)
Cadmium (mg/L)	B-82	0.0007742	0.0004201	0.005	No	7	0.0005971	0.0001491	0	None	No	0.01	Param.
Cadmium (mg/L)	B-83	0.0003836	0.000265	0.005	No	7	0.0003243	0.00004995	0	None	No	0.01	Param.
Cadmium (mg/L)	B-88	0.0065	0.00022	0.005	No	6	0.002553	0.002222	0	None	No	0.0155	NP (selected)
Cadmium (mg/L)	B-93	0.0008701	0.0007199	0.005	No	6	0.000795	0.00005468	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-10	0.001152	0.0007597	0.005	No	16	0.0009556	0.0003012	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-11	0.0005	0.00016	0.005	No	16	0.0004106	0.0001601	75	None	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-12	0.000327	0.0002145	0.005	No	18	0.0003878	0.0001897	27.78	Kaplan-Meier	sqrt(x)	0.01	Param.
Cadmium (mg/L)	DGWC-13	0.0005	0.0002	0.005	No	16	0.000455	0.0001249	87.5	Kaplan-Meier	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-15	0.001	0.00013	0.005	No	17	0.0004371	0.0002236	76.47	Kaplan-Meier	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-17	0.00033	0.00023	0.005	No	17	0.0002935	0.00008616	11.76	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-19	0.00041	0.00034	0.005	No	17	0.0004141	0.0001576	11.76	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-2	0.0005	0.00014	0.005	No	17	0.0003824	0.0002229	41.18	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-20	0.002291	0.00178	0.005	No	17	0.002035	0.0004076	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-21	0.0006131	0.0003396	0.005	No	17	0.00058	0.0002051	17.65	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	DGWC-22	0.0006868	0.0004708	0.005	No	17	0.0005788	0.0001724	11.76	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-23	0.0003	0.00018	0.005	No	17	0.0002788	0.0002044	11.76	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-4	0.0008536	0.0006414	0.005	No	16	0.0007475	0.0001631	12.5	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-42	0.001003	0.0004734	0.005	No	17	0.0007894	0.0005327	11.76	None	x^(1/3)	0.01	Param.
Cadmium (mg/L)	DGWC-47	0.002104	0.001272	0.005	No	17	0.001688	0.0006642	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-48	0.0036	0.0026	0.005	No	17	0.003435	0.001595	0	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-5	0.0008361	0.0004889	0.005	No	16	0.0006625	0.0002669	12.5	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-8	0.002443	0.001819	0.005	No	16	0.002131	0.0004799	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-9	0.0006783	0.000519	0.005	No	17	0.0006024	0.0001347	11.76	None	sqrt(x)	0.01	Param.

# Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/22/2022, 10:01 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chromium (mg/L)	B-100	0.005	0.00057	0.1	No	6	0.003585	0.002195	66.67	None	No	0.0155	NP (NDs)
Chromium (mg/L)	B-101D	0.005	0.0014	0.1	No	5	0.00428	0.00161	80	None	No	0.031	NP (NDs)
Chromium (mg/L)	B-104D	0.005	0.0011	0.1	No	6	0.00435	0.001592	83.33	None	No	0.0155	NP (NDs)
Chromium (mg/L)	B-109D	0.005	0.00061	0.1	No	5	0.004122	0.001963	80	None	No	0.031	NP (NDs)
Chromium (mg/L)	B-56	0.005	0.00059	0.1	No	6	0.003065	0.00214	50	None	No	0.0155	NP (normality)
Chromium (mg/L)	B-62	0.005	0.00098	0.1	No	9	0.004553	0.00134	88.89	None	No	0.002	NP (NDs)
Chromium (mg/L)	B-63	0.005	0.00064	0.1	No	6	0.004273	0.00178	83.33	None	No	0.0155	NP (NDs)
Chromium (mg/L)	B-77	0.005	0.00068	0.1	No	8	0.003057	0.002123	50	None	No	0.004	NP (normality)
Chromium (mg/L)	B-82	0.005	0.0011	0.1	No	7	0.004443	0.001474	85.71	None	No	0.008	NP (NDs)
Chromium (mg/L)	B-83	0.005285	0.001944	0.1	No	7	0.003614	0.001406	0	None	No	0.01	Param.
Chromium (mg/L)	B-88	0.005	0.00085	0.1	No	6	0.003158	0.002036	50	None	No	0.0155	NP (normality)
Chromium (mg/L)	B-93	0.005	0.00057	0.1	No	6	0.002888	0.00232	50	None	No	0.0155	NP (normality)
Chromium (mg/L)	DGWC-10	0.005	0.00078	0.1	No	16	0.002412	0.002073	37.5	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-11	0.005	0.00061	0.1	No	16	0.003899	0.001969	75	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-12	0.005	0.00099	0.1	No	18	0.004552	0.001305	88.89	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-13	0.005	0.00074	0.1	No	16	0.003931	0.001914	75	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-15	0.01	0.0048	0.1	No	17	0.004491	0.00225	76.47	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-17	0.0033	0.0024	0.1	No	17	0.002994	0.0008295	11.76	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-19	0.0031	0.0024	0.1	No	17	0.003329	0.001911	17.65	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-2	0.005	0.0005	0.1	No	17	0.003422	0.002203	64.71	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-20	0.005	0.0015	0.1	No	17	0.003265	0.002306	35.29	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-21	0.005	0.0006	0.1	No	17	0.003526	0.002084	64.71	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-22	0.005	0.0012	0.1	No	17	0.004776	0.0009216	94.12	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-23	0.005	0.0005	0.1	No	17	0.002518	0.002154	41.18	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-4	0.005	0.0005	0.1	No	16	0.004719	0.001125	93.75	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-42	0.005	0.0008	0.1	No	17	0.003308	0.002116	58.82	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-47	0.005	0.0007	0.1	No	17	0.004747	0.001043	94.12	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-48	0.005	0.0007	0.1	No	17	0.004476	0.001479	88.24	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-5	0.005	0.00045	0.1	No	16	0.004716	0.001137	93.75	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-8	0.005	0.00086	0.1	No	16	0.003592	0.001943	62.5	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-9	0.0057	0.00061	0.1	No	17	0.003635	0.002069	58.82	None	No	0.01	NP (NDs)
Cobalt (mg/L)	B-100	0.087	0.028	0.032	No	8	0.05125	0.02684	0	None	No	0.004	NP (normality)
Cobalt (mg/L)	B-101D	0.003812	0.002188	0.032	No	5	0.003	0.0004848	0	None	No	0.01	Param.
Cobalt (mg/L)	B-102D	0.01509	0.01225	0.032	No	6	0.01367	0.001033	0	None	No	0.01	Param.
<b>Cobalt (mg/L)</b>	<b>B-104D</b>	<b>0.2056</b>	<b>0.09109</b>	<b>0.032</b>	<b>Yes</b>	<b>6</b>	<b>0.1483</b>	<b>0.04167</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	B-106D	0.0009444	0.0005169	0.032	No	5	0.001426	0.0009865	40	Kaplan-Meier	ln(x)	0.01	Param.
Cobalt (mg/L)	B-107D	0.001753	0.0003352	0.032	No	5	0.001044	0.000423	0	None	No	0.01	Param.
Cobalt (mg/L)	B-108D	0.004907	0.0001737	0.032	No	5	0.001962	0.001654	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	B-111D	0.0008129	0.0004143	0.032	No	6	0.001232	0.0009904	33.33	Kaplan-Meier	ln(x)	0.01	Param.
<b>Cobalt (mg/L)</b>	<b>B-115D</b>	<b>0.3375</b>	<b>0.1875</b>	<b>0.032</b>	<b>Yes</b>	<b>4</b>	<b>0.2625</b>	<b>0.03304</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	B-120D	0.02518	0.000009622	0.032	No	4	0.007425	0.006488	0	None	sqrt(x)	0.01	Param.
<b>Cobalt (mg/L)</b>	<b>B-56</b>	<b>0.05346</b>	<b>0.04121</b>	<b>0.032</b>	<b>Yes</b>	<b>6</b>	<b>0.04733</b>	<b>0.004457</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	B-62	0.0025	0.00031	0.032	No	10	0.002061	0.0009255	80	None	No	0.011	NP (NDs)
<b>Cobalt (mg/L)</b>	<b>B-63</b>	<b>0.05067</b>	<b>0.03805</b>	<b>0.032</b>	<b>Yes</b>	<b>7</b>	<b>0.04436</b>	<b>0.005313</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	B-66	0.01356	0.004416	0.032	No	7	0.008986	0.003847	14.29	None	No	0.01	Param.
Cobalt (mg/L)	B-77	0.002648	0.0007123	0.032	No	8	0.001987	0.0008806	37.5	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	B-82	0.006341	0.001171	0.032	No	8	0.003756	0.002439	0	None	No	0.01	Param.
Cobalt (mg/L)	B-83	0.01862	0.007148	0.032	No	7	0.01289	0.004831	0	None	No	0.01	Param.
Cobalt (mg/L)	B-88	0.01587	0.001019	0.032	No	7	0.007364	0.008753	0	None	ln(x)	0.01	Param.
<b>Cobalt (mg/L)</b>	<b>B-93</b>	<b>0.06739</b>	<b>0.05889</b>	<b>0.032</b>	<b>Yes</b>	<b>7</b>	<b>0.06314</b>	<b>0.003579</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	B-98	0.0048	0.00063	0.032	No	5	0.002586	0.001479	60	None	No	0.031	NP (NDs)
<b>Cobalt (mg/L)</b>	<b>DGWC-10</b>	<b>0.193</b>	<b>0.076</b>	<b>0.032</b>	<b>Yes</b>	<b>16</b>	<b>0.1441</b>	<b>0.05294</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>NP (normality)</b>
Cobalt (mg/L)	DGWC-11	0.0025	0.00065	0.032	No	16	0.001452	0.0008668	37.5	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-12	0.018	0.0025	0.032	No	18	0.009611	0.01017	11.11	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-13	0.0025	0.0005	0.032	No	16	0.002111	0.0008361	81.25	None	No	0.01	NP (NDs)

# Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/22/2022, 10:01 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cobalt (mg/L)	DGWC-15	0.0025	0.0016	0.032	No	17	0.003406	0.005607	5.882	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-17	0.02641	0.01852	0.032	No	17	0.02246	0.006302	5.882	None	No	0.01	Param.
<b>Cobalt (mg/L)</b>	<b>DGWC-19</b>	<b>0.05329</b>	<b>0.04968</b>	<b>0.032</b>	<b>Yes</b>	<b>17</b>	<b>0.05148</b>	<b>0.002882</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	DGWC-2	0.02169	0.007709	0.032	No	17	0.01594	0.01179	0	None	sqrt(x)	0.01	Param.
<b>Cobalt (mg/L)</b>	<b>DGWC-20</b>	<b>0.6845</b>	<b>0.4878</b>	<b>0.032</b>	<b>Yes</b>	<b>17</b>	<b>0.5919</b>	<b>0.1635</b>	<b>0</b>	<b>None</b>	<b>sqrt(x)</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	DGWC-21	0.009637	0.008194	0.032	No	17	0.008529	0.002021	11.76	None	x^4	0.01	Param.
Cobalt (mg/L)	DGWC-22	0.009817	0.007638	0.032	No	17	0.008547	0.002138	11.76	None	x^2	0.01	Param.
Cobalt (mg/L)	DGWC-23	0.0025	0.00043	0.032	No	17	0.00168	0.001338	52.94	None	No	0.01	NP (NDs)
Cobalt (mg/L)	DGWC-4	0.0021	0.0015	0.032	No	16	0.002	0.0008438	12.5	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-42	0.03784	0.01411	0.032	No	17	0.02798	0.02053	0	None	sqrt(x)	0.01	Param.
<b>Cobalt (mg/L)</b>	<b>DGWC-47</b>	<b>0.369</b>	<b>0.2475</b>	<b>0.032</b>	<b>Yes</b>	<b>17</b>	<b>0.3083</b>	<b>0.09696</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Cobalt (mg/L)</b>	<b>DGWC-48</b>	<b>0.4925</b>	<b>0.3864</b>	<b>0.032</b>	<b>Yes</b>	<b>17</b>	<b>0.4394</b>	<b>0.08465</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	DGWC-5	0.04	0.0209	0.032	No	16	0.0277	0.01036	0	None	No	0.01	NP (normality)
<b>Cobalt (mg/L)</b>	<b>DGWC-8</b>	<b>0.08147</b>	<b>0.0369</b>	<b>0.032</b>	<b>Yes</b>	<b>16</b>	<b>0.05919</b>	<b>0.03425</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Cobalt (mg/L)</b>	<b>DGWC-9</b>	<b>0.208</b>	<b>0.1515</b>	<b>0.032</b>	<b>Yes</b>	<b>17</b>	<b>0.1797</b>	<b>0.04503</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Combined Radium 226 + 228 (pCi/L)	B-100	1.3	0.2178	5	No	6	0.7588	0.3938	0	None	No	0.01	Param.
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	1.803	0.2022	5	No	5	1.002	0.4775	0	None	No	0.01	Param.
<b>Combined Radium 226 + 228 (pCi/L)</b>	<b>B-104D</b>	<b>18.51</b>	<b>8.768</b>	<b>5</b>	<b>Yes</b>	<b>5</b>	<b>13.64</b>	<b>2.907</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
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.
<b>Combined Radium 226 + 228 (pCi/L)</b>	<b>B-109D</b>	<b>18.75</b>	<b>6.021</b>	<b>5</b>	<b>Yes</b>	<b>4</b>	<b>12.39</b>	<b>2.804</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
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	1.964	1.348	5	No	8	1.656	0.2907	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	2.525	0.5185	5	No	6	1.416	0.7269	0	None	sqrt(x)	0.01	Param.
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	1.199	0.1069	5	No	6	0.6532	0.3977	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-88	3.228	0.04599	5	No	5	1.637	0.9496	0	None	No	0.01	Param.
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-100	0.1	0.072	4	No	6	0.09533	0.01143	83.33	None	No	0.0155	NP (NDs)
Fluoride, total (mg/L)	B-101D	0.1	0.051	4	No	5	0.071	0.02603	20	None	No	0.031	NP (normality)



# Confidence Intervals - All Results

Plant McDonough    Client: Southern Company    Data: McDonough AP    Printed 11/22/2022, 10:01 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride, total (mg/L)	B-102D	0.1133	0.06032	4	No	6	0.08683	0.0193	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-104D	0.4824	0.2676	4	No	6	0.375	0.07817	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-106D	0.07945	0.04005	4	No	5	0.0678	0.0215	20	Kaplan-Meier	No	0.01	Param.
Fluoride, total (mg/L)	B-107D	0.1	0.053	4	No	5	0.0906	0.02102	80	Kaplan-Meier	No	0.031	NP (NDs)
Fluoride, total (mg/L)	B-108D	0.1	0.061	4	No	5	0.0922	0.01744	80	Kaplan-Meier	No	0.031	NP (NDs)
Fluoride, total (mg/L)	B-109D	0.1807	0.1073	4	No	5	0.144	0.02191	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-111D	0.5548	0.2752	4	No	6	0.415	0.1017	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-115D	1.484	0.4086	4	No	4	0.8025	0.2229	0	None	ln(x)	0.01	Param.
Fluoride, total (mg/L)	B-120D	0.1	0.057	4	No	4	0.08925	0.0215	75	None	No	0.0625	NP (NDs)
Fluoride, total (mg/L)	B-56	0.3162	0.1032	4	No	6	0.2097	0.07752	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-62	0.43	0.093	4	No	8	0.1678	0.1145	0	None	No	0.004	NP (normality)
Fluoride, total (mg/L)	B-63	0.4452	0.06354	4	No	5	0.214	0.1352	0	None	x^(1/3)	0.01	Param.
Fluoride, total (mg/L)	B-66	0.5195	0.01253	4	No	5	0.266	0.1513	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-77	0.1	0.078	4	No	7	0.09343	0.009981	57.14	None	No	0.008	NP (NDs)
Fluoride, total (mg/L)	B-82	0.1527	0.03333	4	No	6	0.1052	0.05017	50	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	B-83	0.1049	0.04706	4	No	7	0.08543	0.02668	28.57	Kaplan-Meier	No	0.01	Param.
Fluoride, total (mg/L)	B-88	0.1	0.054	4	No	6	0.09233	0.01878	83.33	Kaplan-Meier	No	0.0155	NP (NDs)
Fluoride, total (mg/L)	B-93	0.4121	0.2912	4	No	6	0.3517	0.04401	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-10	1.825	1.321	4	No	18	1.573	0.4167	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-11	0.1	0.052	4	No	17	0.08059	0.02524	58.82	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-12	0.2	0.078	4	No	18	0.1506	0.1381	33.33	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	DGWC-13	0.1896	0.08406	4	No	17	0.1478	0.1056	5.882	None	x^(1/3)	0.01	Param.
Fluoride, total (mg/L)	DGWC-14	0.1	0.059	4	No	18	0.08517	0.02588	66.67	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-15	0.11	0.079	4	No	18	0.1028	0.04206	61.11	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-17	0.31	0.084	4	No	18	0.1924	0.1496	16.67	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	DGWC-19	0.449	0.1721	4	No	18	0.3489	0.3011	5.556	None	x^(1/3)	0.01	Param.
Fluoride, total (mg/L)	DGWC-2	0.28	0.053	4	No	18	0.1368	0.1501	38.89	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	DGWC-20	0.9663	0.4549	4	No	18	0.7106	0.4226	5.556	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-21	0.14	0.079	4	No	18	0.1055	0.06279	61.11	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-22	0.12	0.09	4	No	18	0.1147	0.06261	50	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	DGWC-23	0.2073	0.0939	4	No	18	0.1763	0.1487	11.11	None	ln(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-4	0.17	0.082	4	No	18	0.1302	0.1679	66.67	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-42	0.1	0.06	4	No	18	0.09333	0.02058	88.89	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-47	1.081	0.52	4	No	18	0.8006	0.4638	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-48	1.076	0.5784	4	No	18	0.8572	0.4371	0	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-5	0.6408	0.2247	4	No	17	0.5271	0.4418	5.882	None	ln(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-8	0.3171	0.09257	4	No	17	0.2635	0.2284	17.65	Kaplan-Meier	x^(1/3)	0.01	Param.
Fluoride, total (mg/L)	DGWC-9	1.352	0.965	4	No	18	1.158	0.3195	0	None	No	0.01	Param.
Lead (mg/L)	B-100	0.001	0.000088	0.015	No	6	0.0005797	0.0004622	50	None	No	0.0155	NP (normality)
Lead (mg/L)	B-101D	0.001	0.000065	0.015	No	5	0.000813	0.0004181	80	None	No	0.031	NP (NDs)
Lead (mg/L)	B-102D	0.001	0.000037	0.015	No	6	0.0005243	0.0005211	50	None	No	0.0155	NP (normality)
Lead (mg/L)	B-104D	0.001	0.000051	0.015	No	6	0.0008418	0.0003874	83.33	None	No	0.0155	NP (NDs)
Lead (mg/L)	B-107D	0.001	0.000044	0.015	No	5	0.0008088	0.0004275	80	None	No	0.031	NP (NDs)
Lead (mg/L)	B-111D	0.001	0.000051	0.015	No	6	0.0006848	0.0004883	66.67	None	No	0.0155	NP (NDs)
Lead (mg/L)	B-115D	0.001	0.00032	0.015	No	4	0.00083	0.00034	75	None	No	0.0625	NP (NDs)
Lead (mg/L)	B-120D	0.001	0.00019	0.015	No	4	0.0007975	0.000405	75	None	No	0.0625	NP (NDs)
Lead (mg/L)	B-56	0.001	0.000091	0.015	No	6	0.0005685	0.0004749	50	None	No	0.0155	NP (normality)
Lead (mg/L)	B-63	0.001	0.000047	0.015	No	6	0.0006867	0.0004855	66.67	None	No	0.0155	NP (NDs)
Lead (mg/L)	B-77	0.0016	0.00021	0.015	No	8	0.0008025	0.0004838	50	None	No	0.004	NP (selected)
Lead (mg/L)	B-82	0.001	0.000059	0.015	No	7	0.0006184	0.0004768	57.14	None	No	0.008	NP (NDs)
Lead (mg/L)	B-83	0.001	0.000065	0.015	No	7	0.0006107	0.0004624	42.86	None	No	0.008	NP (normality)
Lead (mg/L)	B-88	0.006095	0.0002108	0.015	No	6	0.002893	0.004503	33.33	Kaplan-Meier	ln(x)	0.01	Param.
Lead (mg/L)	B-93	0.001	0.00012	0.015	No	6	0.0007067	0.0004544	66.67	Kaplan-Meier	No	0.0155	NP (NDs)
Lead (mg/L)	DGWC-10	0.001	0.00011	0.015	No	16	0.0006739	0.0004362	62.5	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-11	0.001	0.0001	0.015	No	16	0.0007187	0.0004314	68.75	None	No	0.01	NP (NDs)

# Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/22/2022, 10:01 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	DGWC-12	0.001	0.00011	0.015	No	18	0.0009006	0.0002894	88.89	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-13	0.001	0.0002	0.015	No	16	0.0008936	0.0002913	87.5	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-14	0.001	0.000096	0.015	No	17	0.0008366	0.0003639	82.35	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-15	0.0012	0.0001	0.015	No	17	0.0007495	0.0004302	64.71	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-17	0.001	0.0001	0.015	No	17	0.0006349	0.0004504	58.82	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-19	0.001	0.00016	0.015	No	17	0.0007405	0.000417	70.59	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-2	0.001	0.00009	0.015	No	17	0.0005726	0.0004676	52.94	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-20	0.001	0.00044	0.015	No	17	0.0007628	0.0003566	64.71	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-21	0.001	0.00015	0.015	No	17	0.0006627	0.0004214	58.82	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-23	0.001	0.000066	0.015	No	17	0.0009451	0.0002265	94.12	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-4	0.001	0.00012	0.015	No	16	0.0007793	0.0003958	75	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-42	0.0004369	0.0001603	0.015	No	17	0.0008365	0.001151	29.41	Kaplan-Meier	ln(x)	0.01	Param.
Lead (mg/L)	DGWC-47	0.001	0.0006	0.015	No	17	0.001071	0.001035	35.29	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-48	0.002	0.00095	0.015	No	17	0.001588	0.001115	11.76	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-5	0.001	0.000063	0.015	No	16	0.0006486	0.0006457	43.75	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-8	0.001	0.00011	0.015	No	16	0.0006739	0.0004052	56.25	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-9	0.001	0.00028	0.015	No	17	0.0008588	0.0003153	82.35	None	No	0.01	NP (NDs)
Lithium (mg/L)	B-100	0.002815	0.001518	0.04	No	6	0.002167	0.0004719	0	None	No	0.01	Param.
Lithium (mg/L)	B-101D	0.01506	0.008456	0.04	No	5	0.01176	0.001972	0	None	No	0.01	Param.
Lithium (mg/L)	B-102D	0.01477	0.01156	0.04	No	6	0.01317	0.001169	0	None	No	0.01	Param.
Lithium (mg/L)	B-104D	0.0403	0.0357	0.04	No	6	0.038	0.001673	0	None	No	0.01	Param.
Lithium (mg/L)	B-106D	0.005805	0.004811	0.04	No	5	0.00534	0.000313	0	None	x^3	0.01	Param.
Lithium (mg/L)	B-107D	0.01704	0.01336	0.04	No	5	0.0152	0.001095	0	None	No	0.01	Param.
Lithium (mg/L)	B-108D	0.01668	0.01332	0.04	No	5	0.015	0.001	0	None	No	0.01	Param.
Lithium (mg/L)	B-109D	0.01605	0.01195	0.04	No	5	0.014	0.001225	0	None	No	0.01	Param.
Lithium (mg/L)	B-111D	0.02962	0.01871	0.04	No	6	0.02417	0.003971	0	None	No	0.01	Param.
<b>Lithium (mg/L)</b>	<b>B-115D</b>	<b>0.09241</b>	<b>0.07609</b>	<b>0.04</b>	<b>Yes</b>	<b>4</b>	<b>0.08425</b>	<b>0.003594</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Lithium (mg/L)</b>	<b>B-120D</b>	<b>0.09244</b>	<b>0.06756</b>	<b>0.04</b>	<b>Yes</b>	<b>4</b>	<b>0.08</b>	<b>0.005477</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Lithium (mg/L)	B-56	0.006056	0.004944	0.04	No	6	0.0055	0.000405	0	None	No	0.01	Param.
Lithium (mg/L)	B-62	0.015	0.0078	0.04	No	9	0.009278	0.002213	11.11	None	No	0.002	NP (normality)
Lithium (mg/L)	B-63	0.015	0.0062	0.04	No	7	0.007714	0.003231	14.29	None	No	0.008	NP (normality)
Lithium (mg/L)	B-66	0.015	0.00073	0.04	No	6	0.01262	0.005826	83.33	None	No	0.0155	NP (NDs)
Lithium (mg/L)	B-77	0.003715	0.001092	0.04	No	8	0.005531	0.005977	25	Kaplan-Meier	ln(x)	0.01	Param.
Lithium (mg/L)	B-82	0.0039	0.00078	0.04	No	7	0.001814	0.001352	0	None	No	0.008	NP (normality)
Lithium (mg/L)	B-83	0.003738	0.001605	0.04	No	7	0.002671	0.0008976	0	None	No	0.01	Param.
Lithium (mg/L)	B-88	0.0202	0.0009269	0.04	No	6	0.007833	0.0106	0	None	ln(x)	0.01	Param.
Lithium (mg/L)	B-93	0.013	0.011	0.04	No	6	0.01183	0.0009832	0	None	No	0.0155	NP (normality)
Lithium (mg/L)	DGWC-10	0.006599	0.002973	0.04	No	16	0.005375	0.003986	12.5	None	ln(x)	0.01	Param.
Lithium (mg/L)	DGWC-11	0.0028	0.0019	0.04	No	16	0.003069	0.003198	6.25	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-12	0.015	0.0011	0.04	No	18	0.01034	0.006786	66.67	None	No	0.01	NP (NDs)
Lithium (mg/L)	DGWC-13	0.004	0.0029	0.04	No	16	0.00475	0.004016	12.5	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-14	0.0044	0.0034	0.04	No	17	0.004671	0.002882	5.882	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-15	0.0064	0.0057	0.04	No	16	0.006144	0.0008469	0	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-17	0.015	0.0011	0.04	No	17	0.01009	0.006856	64.71	None	No	0.01	NP (NDs)
Lithium (mg/L)	DGWC-19	0.0034	0.0031	0.04	No	17	0.003894	0.00287	5.882	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-2	0.0807	0.023	0.04	No	17	0.04594	0.0297	5.882	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-20	0.012	0.0021	0.04	No	17	0.006924	0.005464	5.882	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-21	0.0065	0.0057	0.04	No	17	0.006535	0.002217	5.882	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-22	0.0046	0.0036	0.04	No	17	0.004653	0.002705	5.882	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-23	0.014	0.0039	0.04	No	17	0.01075	0.01733	5.882	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-4	0.0037	0.0025	0.04	No	16	0.003781	0.003031	6.25	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-42	0.01233	0.009624	0.04	No	17	0.01098	0.002158	5.882	None	No	0.01	Param.
<b>Lithium (mg/L)</b>	<b>DGWC-47</b>	<b>0.07239</b>	<b>0.05682</b>	<b>0.04</b>	<b>Yes</b>	<b>17</b>	<b>0.06461</b>	<b>0.01243</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Lithium (mg/L)</b>	<b>DGWC-48</b>	<b>0.1245</b>	<b>0.1056</b>	<b>0.04</b>	<b>Yes</b>	<b>17</b>	<b>0.1151</b>	<b>0.01511</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Lithium (mg/L)	DGWC-5	0.008091	0.004567	0.04	No	16	0.006481	0.002885	6.25	None	sqrt(x)	0.01	Param.

# Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/22/2022, 10:01 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	DGWC-8	0.00675	0.004185	0.04	No	16	0.005725	0.002765	6.25	None	ln(x)	0.01	Param.
Lithium (mg/L)	DGWC-9	0.02895	0.02357	0.04	No	17	0.02626	0.004292	5.882	None	No	0.01	Param.
Mercury (mg/L)	B-100	0.0002	0.00011	0.002	No	5	0.000182	0.00004025	80	None	No	0.031	NP (NDs)
Mercury (mg/L)	B-101D	0.0002	0.00014	0.002	No	5	0.000188	0.00002683	80	None	No	0.031	NP (NDs)
Mercury (mg/L)	B-104D	0.0002	0.000079	0.002	No	6	0.0001798	0.0000494	83.33	None	No	0.0155	NP (NDs)
Mercury (mg/L)	B-107D	0.0002	0.00016	0.002	No	5	0.000192	0.00001789	80	None	No	0.031	NP (NDs)
Mercury (mg/L)	B-108D	0.0002	0.00014	0.002	No	5	0.000188	0.00002683	80	None	No	0.031	NP (NDs)
Mercury (mg/L)	B-111D	0.0002	0.000094	0.002	No	6	0.0001823	0.00004327	83.33	None	No	0.0155	NP (NDs)
Mercury (mg/L)	B-56	0.0002	0.00016	0.002	No	6	0.0001933	0.00001633	83.33	None	No	0.0155	NP (NDs)
Mercury (mg/L)	B-82	0.0002	0.00011	0.002	No	7	0.0001871	0.00003402	85.71	None	No	0.008	NP (NDs)
Mercury (mg/L)	B-88	0.0002	0.0001	0.002	No	6	0.0001683	0.00004916	66.67	None	No	0.0155	NP (NDs)
Mercury (mg/L)	B-93	0.0002543	0.00009374	0.002	No	6	0.0001847	0.00006049	16.67	Kaplan-Meier	No	0.01	Param.
Mercury (mg/L)	DGWC-10	0.0002	0.000081	0.002	No	16	0.0001701	0.00005368	75	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-11	0.0002	0.00008	0.002	No	16	0.0001744	0.00005537	81.25	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-12	0.0002	0.00008	0.002	No	18	0.0001592	0.00006243	66.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-13	0.0002	0.00009	0.002	No	16	0.000185	0.00004115	87.5	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-14	0.0002	0.00008	0.002	No	17	0.0001759	0.00005397	82.35	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-15	0.0002	0.00006	0.002	No	17	0.0001918	0.00003395	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-17	0.0002	0.000082	0.002	No	17	0.0001474	0.0000627	52.94	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-19	0.0002	0.00009	0.002	No	17	0.0001753	0.0000558	82.35	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-2	0.00064	0.000083	0.002	No	17	0.0002043	0.000122	76.47	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-20	0.0002	0.00009	0.002	No	17	0.0001794	0.00004589	82.35	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-21	0.0002	0.00008	0.002	No	17	0.0001629	0.0000608	70.59	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-22	0.0002	0.00011	0.002	No	17	0.0001715	0.00005465	76.47	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-23	0.0001899	0.0001266	0.002	No	17	0.0001871	0.00005382	35.29	Kaplan-Meier	x^(1/3)	0.01	Param.
Mercury (mg/L)	DGWC-4	0.00022	0.00013	0.002	No	16	0.0002064	0.0001111	68.75	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-42	0.0002	0.00004	0.002	No	17	0.0001906	0.00003881	94.12	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-48	0.0002	0.00006	0.002	No	17	0.0001918	0.00003395	94.12	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-5	0.0002509	0.0001313	0.002	No	16	0.0001996	0.0001117	12.5	None	x^(1/3)	0.01	Param.
Mercury (mg/L)	DGWC-8	0.0002	0.000079	0.002	No	16	0.0001557	0.00006126	62.5	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-9	0.0002	0.00013	0.002	No	17	0.000186	0.00008263	41.18	None	No	0.01	NP (normality)
Molybdenum (mg/L)	B-101D	0.01	0.0022	0.1	No	5	0.00844	0.003488	80	None	No	0.031	NP (NDs)
Molybdenum (mg/L)	B-102D	0.01	0.0015	0.1	No	6	0.008583	0.00347	83.33	None	No	0.0155	NP (NDs)
Molybdenum (mg/L)	B-104D	0.01	0.00083	0.1	No	6	0.007005	0.004641	66.67	None	No	0.0155	NP (NDs)
Molybdenum (mg/L)	B-109D	0.002187	0.0007334	0.1	No	5	0.00146	0.0004336	0	None	No	0.01	Param.
Molybdenum (mg/L)	B-111D	0.013	0.0052	0.1	No	6	0.007117	0.002969	0	None	No	0.0155	NP (normality)
Molybdenum (mg/L)	B-120D	0.01	0.00089	0.1	No	4	0.007722	0.004555	75	None	No	0.0625	NP (NDs)
Molybdenum (mg/L)	B-66	0.01	0.0015	0.1	No	6	0.007217	0.004313	66.67	None	No	0.0155	NP (NDs)
Molybdenum (mg/L)	B-88	0.01	0.0012	0.1	No	6	0.007067	0.004544	66.67	None	No	0.0155	NP (NDs)
Molybdenum (mg/L)	DGWC-13	0.02242	0.01192	0.1	No	16	0.01833	0.009341	0	None	ln(x)	0.01	Param.
Molybdenum (mg/L)	DGWC-2	0.01	0.0018	0.1	No	17	0.004747	0.004019	35.29	None	No	0.01	NP (normality)
Molybdenum (mg/L)	DGWC-23	0.01082	0.007024	0.1	No	17	0.008924	0.003032	0	None	No	0.01	Param.
Molybdenum (mg/L)	DGWC-4	0.006923	0.004615	0.1	No	16	0.005769	0.001774	6.25	None	No	0.01	Param.
Selenium (mg/L)	B-100	0.005	0.0019	0.05	No	6	0.004483	0.001266	83.33	None	No	0.0155	NP (NDs)
Selenium (mg/L)	B-101D	0.005	0.0031	0.05	No	5	0.00462	0.0008497	80	None	No	0.031	NP (NDs)
Selenium (mg/L)	B-104D	0.005	0.0016	0.05	No	6	0.004117	0.001448	66.67	None	No	0.0155	NP (NDs)
Selenium (mg/L)	B-108D	0.005	0.0016	0.05	No	5	0.00432	0.001521	80	None	No	0.031	NP (NDs)
Selenium (mg/L)	B-111D	0.005	0.0022	0.05	No	6	0.004533	0.001143	83.33	None	No	0.0155	NP (NDs)
Selenium (mg/L)	B-115D	0.007751	0.0006488	0.05	No	4	0.0042	0.001564	0	None	No	0.01	Param.
Selenium (mg/L)	B-120D	0.00459	0.0002602	0.05	No	4	0.002425	0.0009535	0	None	No	0.01	Param.
Selenium (mg/L)	B-56	0.02364	0.005489	0.05	No	6	0.01343	0.00791	0	None	x^(1/3)	0.01	Param.
Selenium (mg/L)	B-77	0.005	0.0017	0.05	No	8	0.004587	0.001167	87.5	None	No	0.004	NP (NDs)
Selenium (mg/L)	B-82	0.005	0.0016	0.05	No	7	0.003671	0.001664	57.14	None	No	0.008	NP (NDs)
Selenium (mg/L)	B-83	0.02829	0.01234	0.05	No	7	0.02031	0.006715	0	None	No	0.01	Param.
Selenium (mg/L)	B-88	0.002986	0.001427	0.05	No	6	0.0029	0.001235	16.67	Kaplan-Meier	No	0.01	Param.

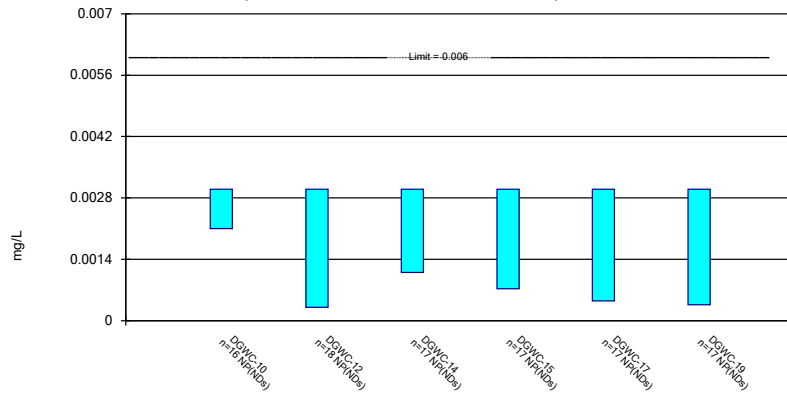
# Confidence Intervals - All Results

Plant McDonough    Client: Southern Company    Data: McDonough AP    Printed 11/22/2022, 10:01 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Selenium (mg/L)	B-93	0.02992	0.003804	0.05	No	6	0.01513	0.01105	0	None	sqrt(x)	0.01	Param.
Selenium (mg/L)	DGWC-10	0.04891	0.02113	0.05	No	16	0.03502	0.02135	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-12	0.005	0.0019	0.05	No	18	0.00405	0.002157	61.11	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-13	0.004355	0.002125	0.05	No	16	0.004394	0.002313	18.75	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	DGWC-14	0.01	0.0017	0.05	No	17	0.004118	0.002217	64.71	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-15	0.01	0.0018	0.05	No	17	0.005106	0.00148	94.12	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-17	0.008819	0.006411	0.05	No	17	0.007771	0.002266	11.76	None	ln(x)	0.01	Param.
Selenium (mg/L)	DGWC-19	0.008624	0.005564	0.05	No	17	0.007094	0.002441	11.76	None	No	0.01	Param.
Selenium (mg/L)	DGWC-2	0.0051	0.0037	0.05	No	17	0.004871	0.001733	41.18	None	No	0.01	NP (normality)
Selenium (mg/L)	DGWC-20	0.06544	0.03599	0.05	No	17	0.05072	0.0235	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-22	0.005	0.0017	0.05	No	17	0.004806	0.0008004	94.12	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-4	0.005	0.0014	0.05	No	16	0.004775	0.0009	93.75	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-47	0.01198	0.004695	0.05	No	17	0.008335	0.00581	11.76	None	No	0.01	Param.
Selenium (mg/L)	DGWC-48	0.006509	0.002678	0.05	No	17	0.005541	0.003219	17.65	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	DGWC-5	0.03982	0.009533	0.05	No	16	0.03004	0.03995	6.25	None	x^(1/3)	0.01	Param.
Selenium (mg/L)	DGWC-8	0.0069	0.0028	0.05	No	16	0.004637	0.002001	56.25	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-9	0.121	0.04897	0.05	No	17	0.08498	0.05747	0	None	No	0.01	Param.
Thallium (mg/L)	B-56	0.0003125	0.0001709	0.002	No	6	0.0002417	0.00005154	0	None	No	0.01	Param.
Thallium (mg/L)	B-82	0.005	0.000099	0.002	No	7	0.003601	0.002389	71.43	None	No	0.008	NP (NDs)
Thallium (mg/L)	B-83	0.005	0.000072	0.002	No	7	0.004296	0.001863	85.71	None	No	0.008	NP (NDs)
Thallium (mg/L)	B-88	0.005	0.0002	0.002	No	6	0.0042	0.00196	83.33	None	No	0.0155	NP (NDs)
Thallium (mg/L)	DGWC-10	0.001	0.00034	0.002	No	16	0.001012	0.001565	18.75	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-12	0.005	0.00009	0.002	No	18	0.003093	0.00246	61.11	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-17	0.005	0.00017	0.002	No	17	0.001881	0.002375	35.29	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-19	0.00057	0.00049	0.002	No	17	0.0005465	0.0001297	5.882	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-20	0.005	0.00055	0.002	No	17	0.00189	0.001838	29.41	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-22	0.005	0.00007	0.002	No	17	0.003549	0.002317	70.59	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-4	0.005	0.000073	0.002	No	16	0.004692	0.001232	93.75	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-42	0.005	0.00009	0.002	No	17	0.003843	0.002149	76.47	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-47	0.00032	0.0002	0.002	No	17	0.0005741	0.001156	11.76	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-48	0.005	0.00008	0.002	No	17	0.003553	0.00231	70.59	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-5	0.005	0.0002	0.002	No	16	0.004084	0.00197	81.25	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-8	0.001	0.00019	0.002	No	16	0.001164	0.001913	25	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-9	0.005	0.00044	0.002	No	17	0.002385	0.002258	41.18	None	No	0.01	NP (normality)

### Non-Parametric Confidence Interval

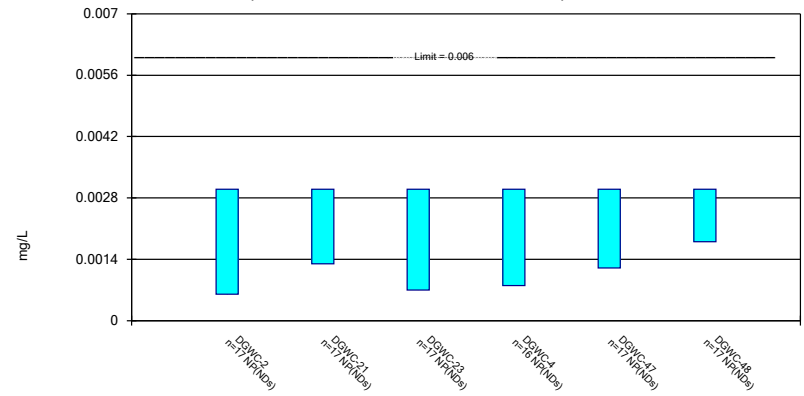
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Antimony Analysis Run 11/22/2022 9:37 AM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

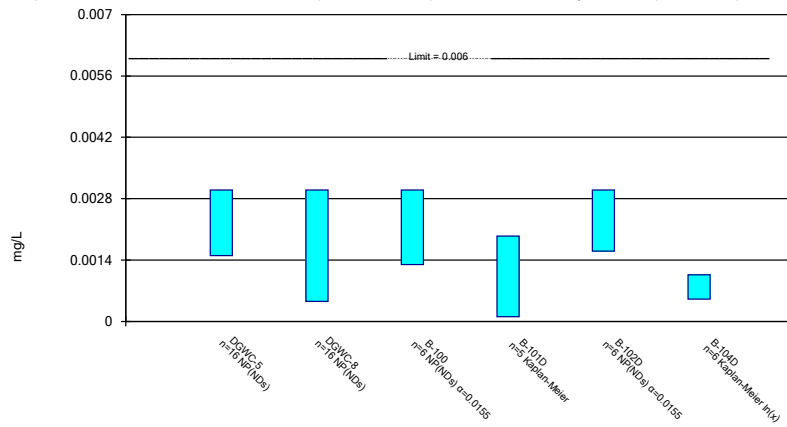
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Constituent: Antimony Analysis Run 11/22/2022 9:37 AM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

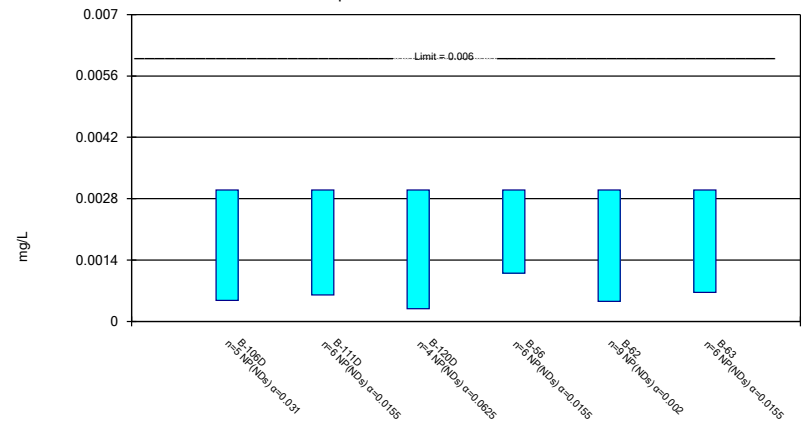
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Constituent: Antimony Analysis Run 11/22/2022 9:37 AM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

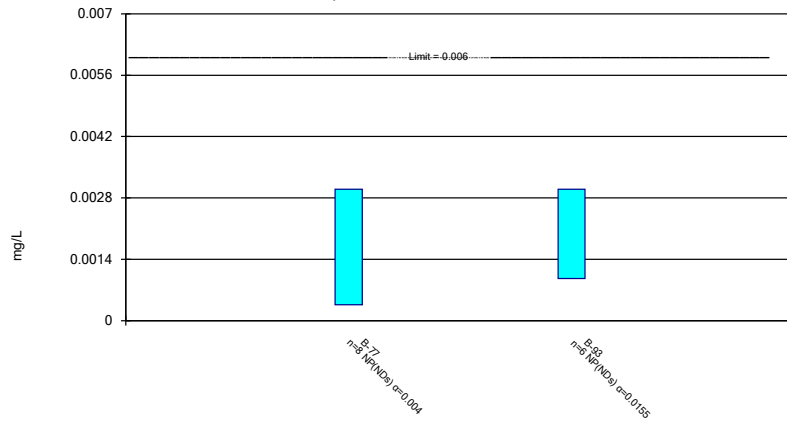
Compliance Limit is not exceeded.



Constituent: Antimony Analysis Run 11/22/2022 9:37 AM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

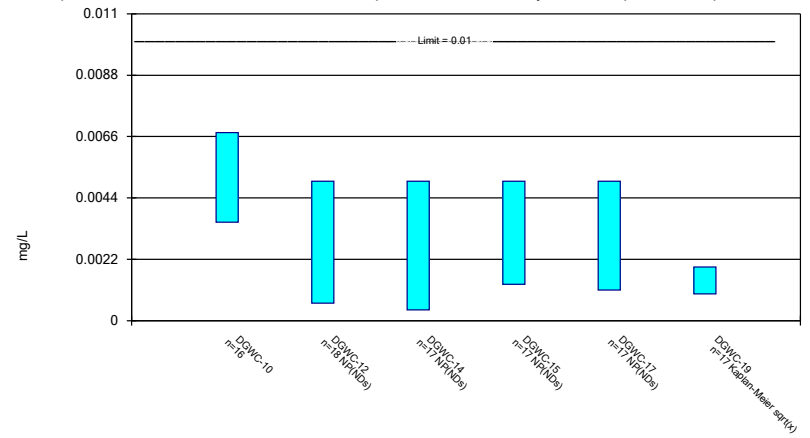
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Constituent: Antimony Analysis Run 11/22/2022 9:37 AM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

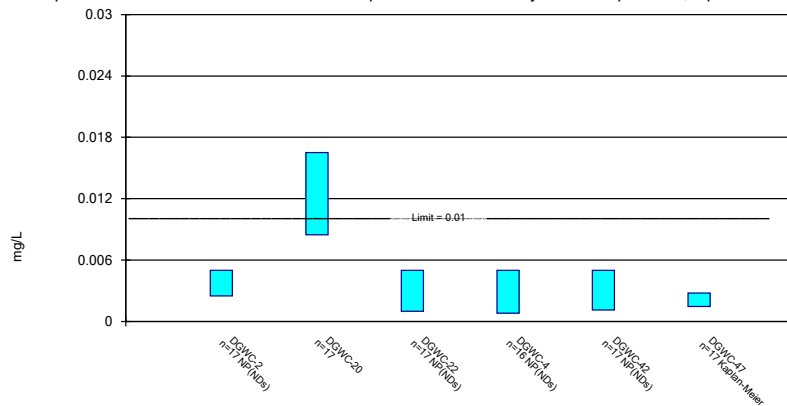
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Constituent: Arsenic Analysis Run 11/22/2022 9:37 AM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

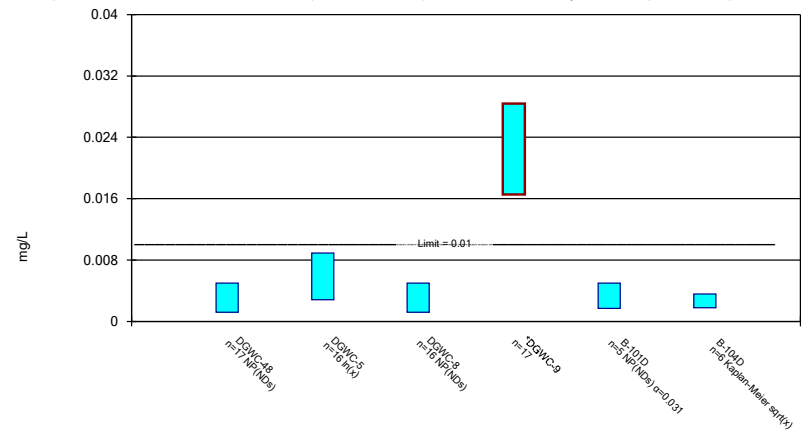
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Constituent: Arsenic Analysis Run 11/22/2022 9:37 AM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

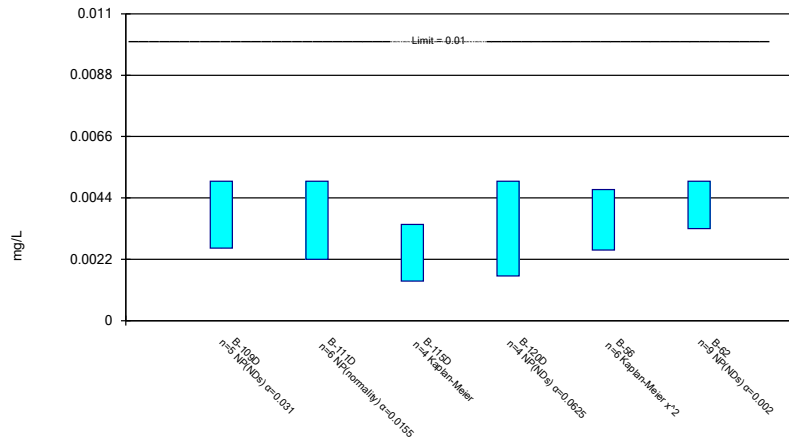
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Constituent: Arsenic Analysis Run 11/22/2022 9:37 AM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

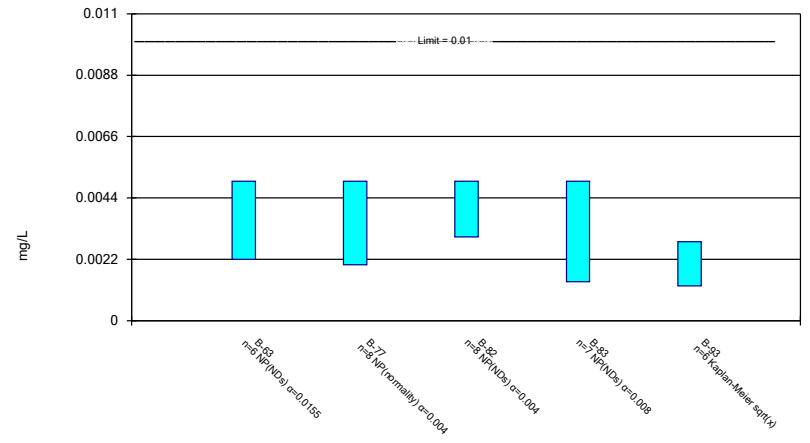
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Constituent: Arsenic Analysis Run 11/22/2022 9:37 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

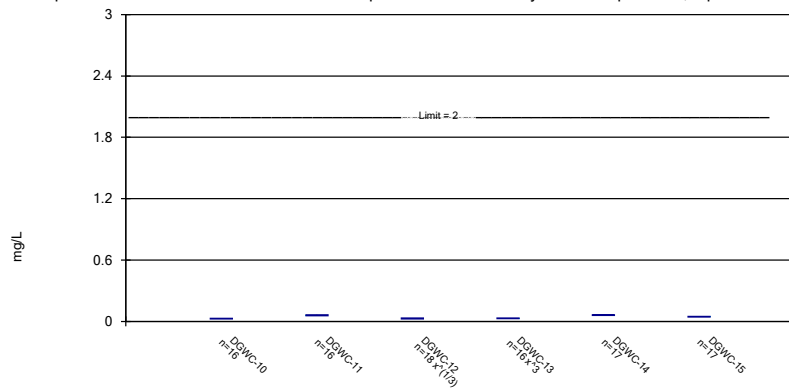
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Constituent: Arsenic Analysis Run 11/22/2022 9:37 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

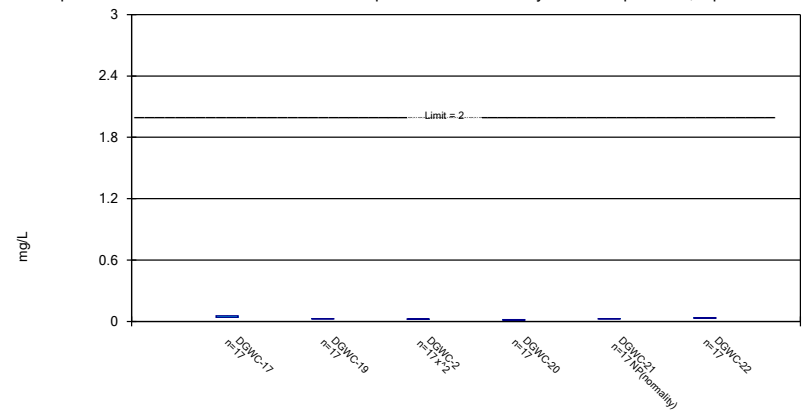
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Constituent: Barium Analysis Run 11/22/2022 9:37 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

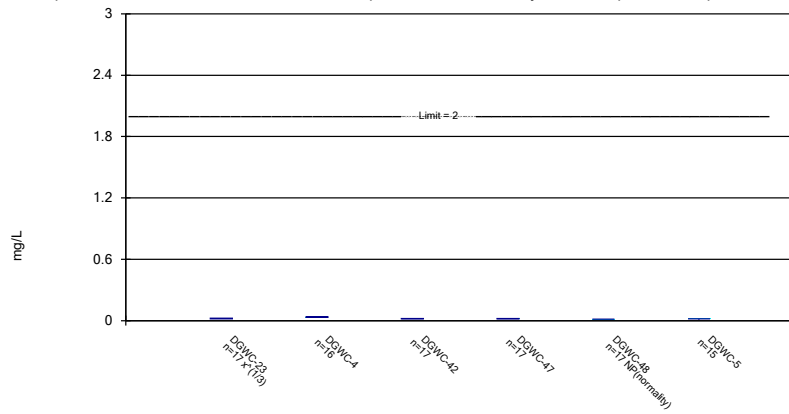
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Constituent: Barium Analysis Run 11/22/2022 9:37 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

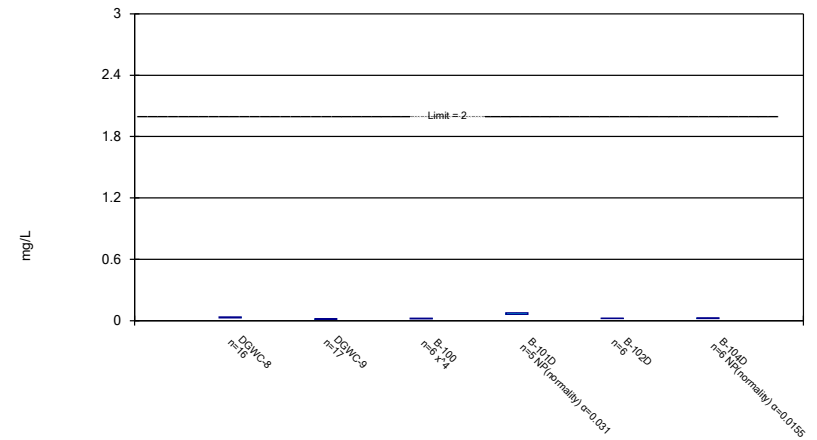
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Constituent: Barium Analysis Run 11/22/2022 9:38 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

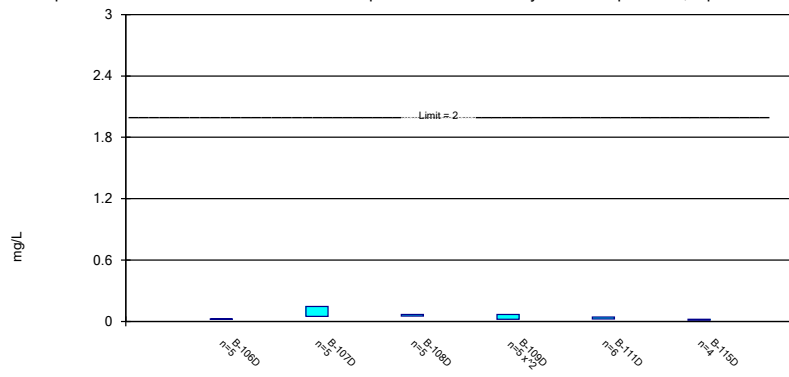
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 11/22/2022 9:38 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric Confidence Interval

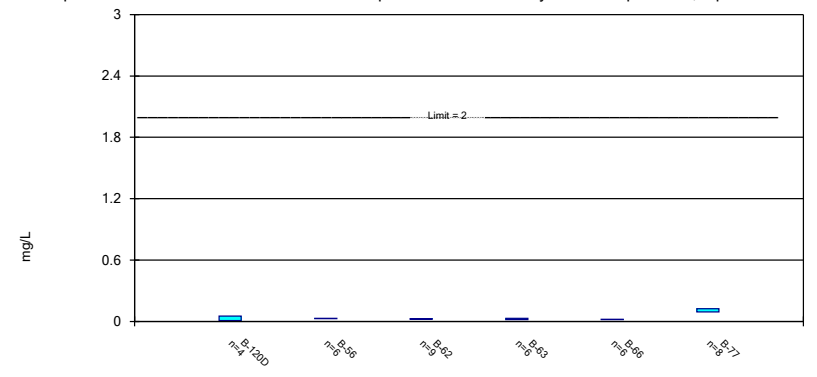
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Constituent: Barium Analysis Run 11/22/2022 9:38 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

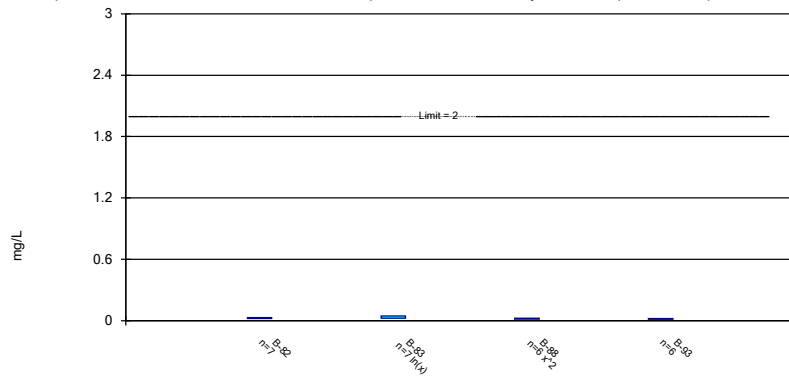


Constituent: Barium Analysis Run 11/22/2022 9:38 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP



### Parametric Confidence Interval

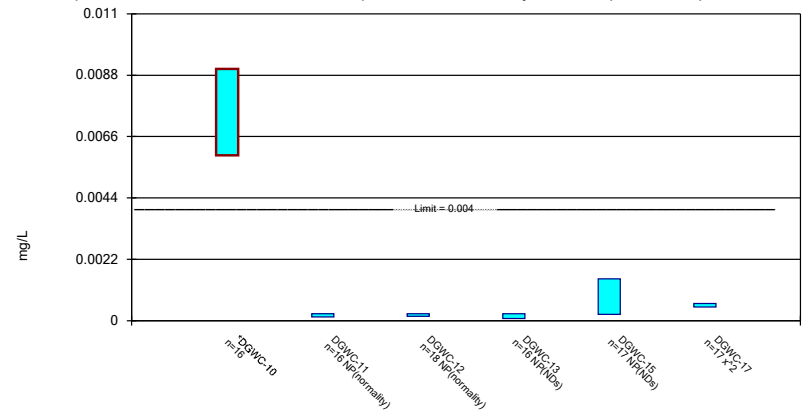
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Constituent: Barium Analysis Run 11/22/2022 9:38 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

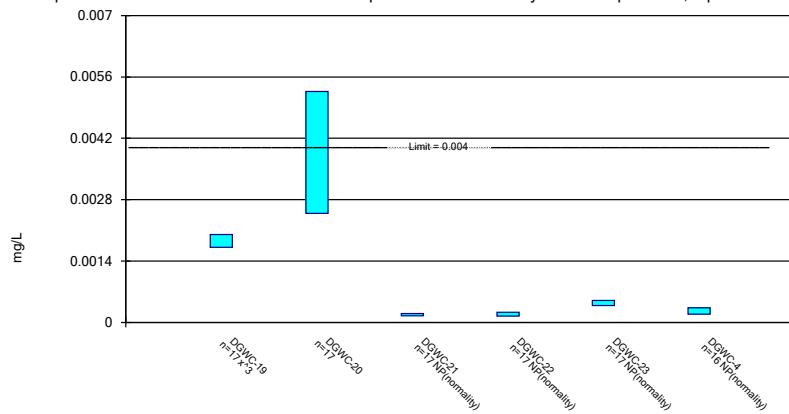
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Constituent: Beryllium Analysis Run 11/22/2022 9:38 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

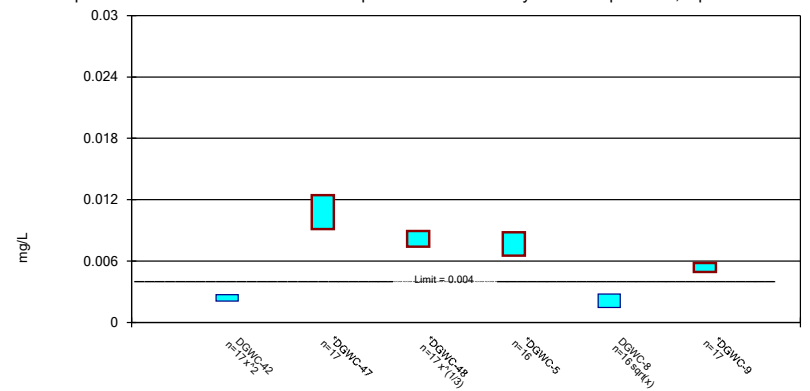
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Constituent: Beryllium Analysis Run 11/22/2022 9:38 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric Confidence Interval

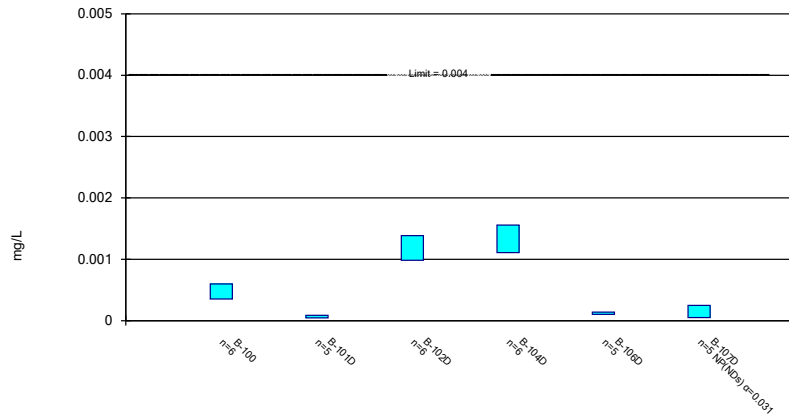
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 11/22/2022 9:38 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

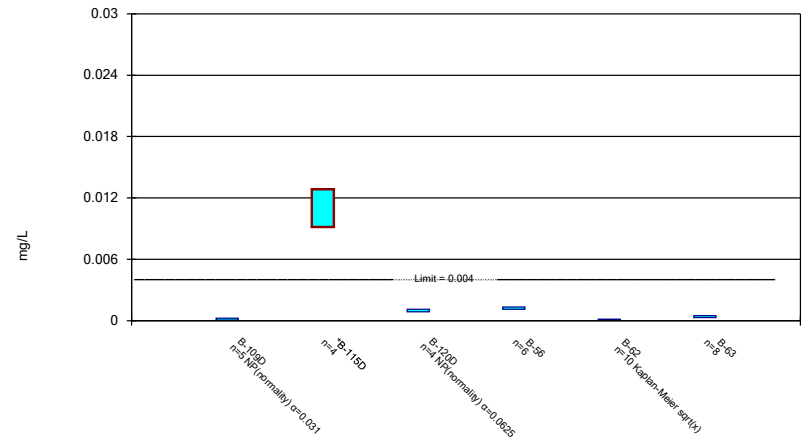
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Constituent: Beryllium Analysis Run 11/22/2022 9:38 AM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

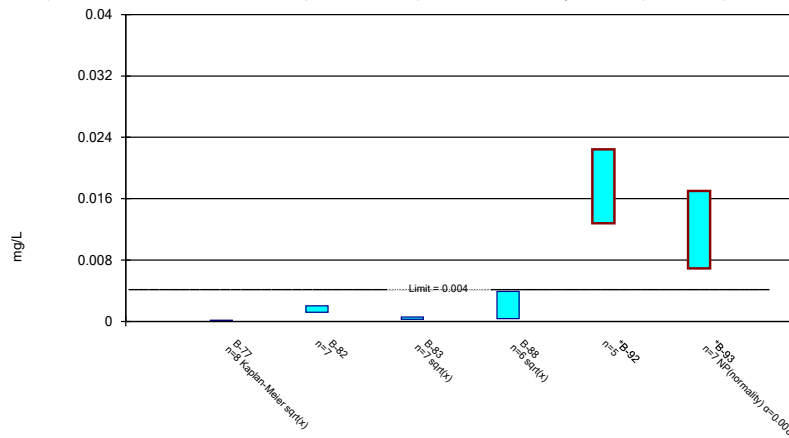
Compliance limit is exceeded.\* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 11/22/2022 9:38 AM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

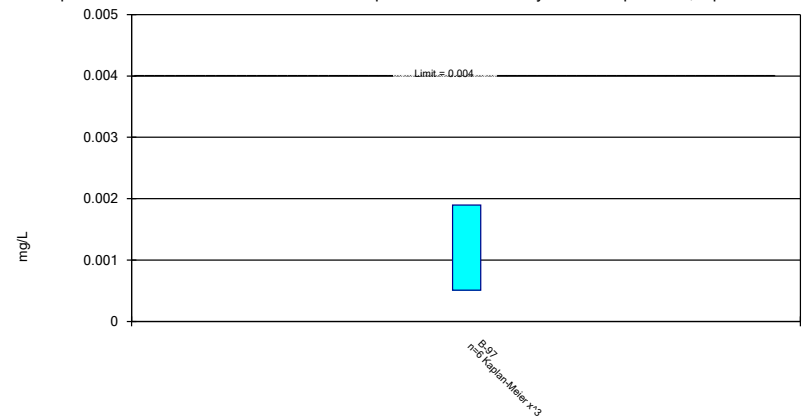
Compliance limit is exceeded.\* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 11/22/2022 9:38 AM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric Confidence Interval

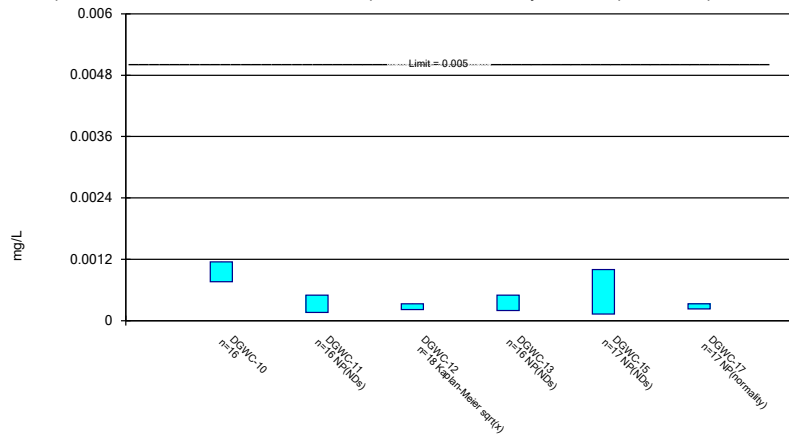
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 11/22/2022 9:38 AM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

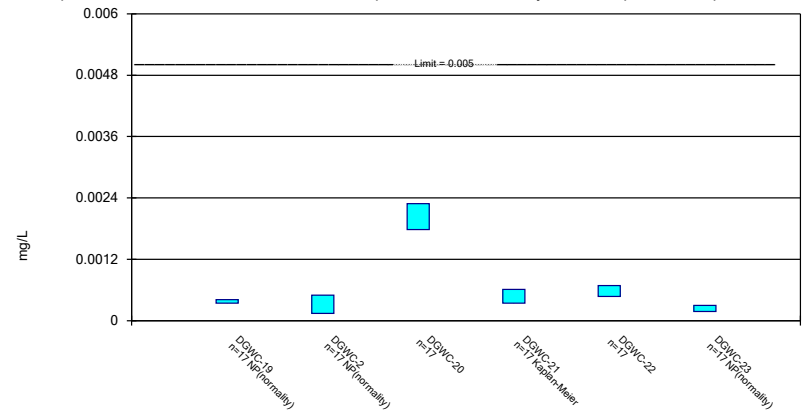
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 11/22/2022 9:38 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

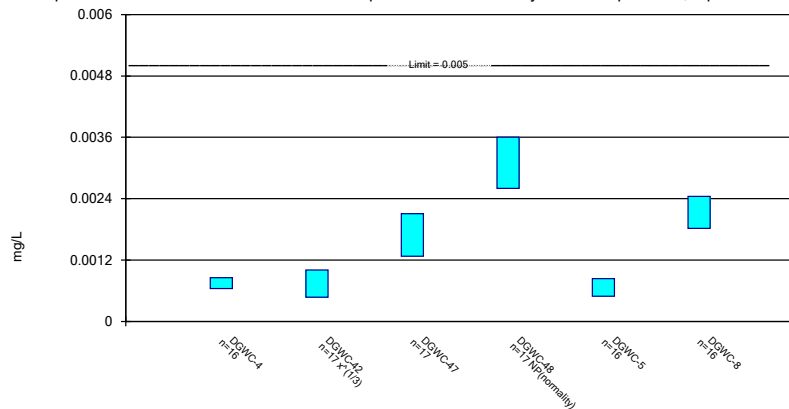
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 11/22/2022 9:38 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

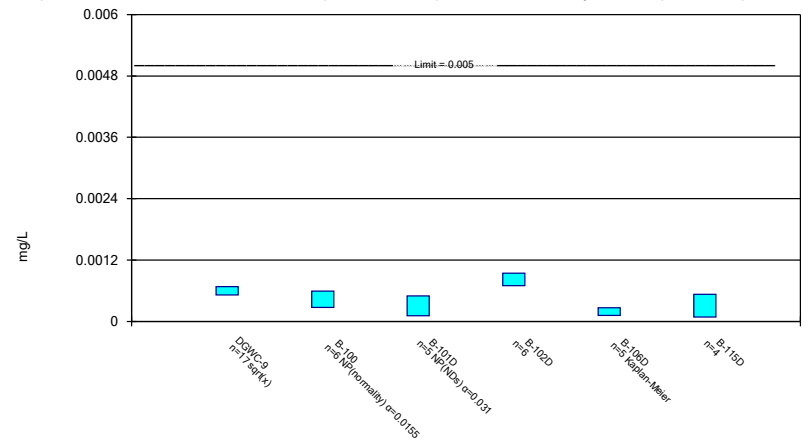
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 11/22/2022 9:38 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

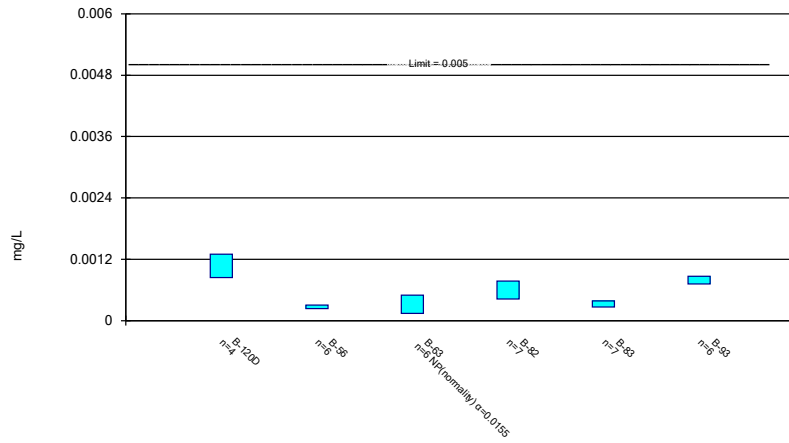
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 11/22/2022 9:38 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

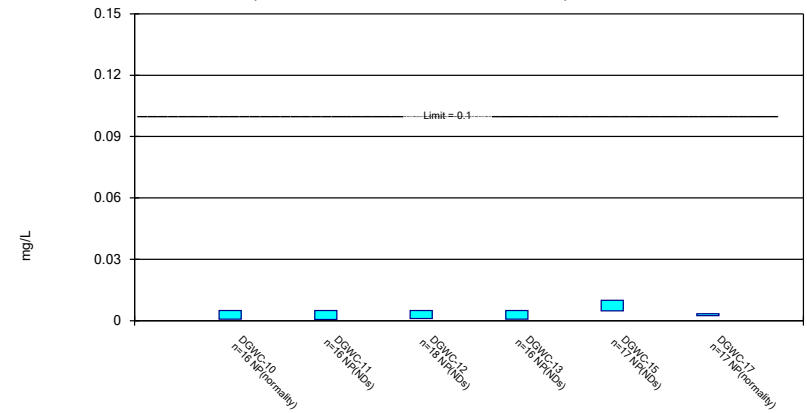
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 11/22/2022 9:38 AM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

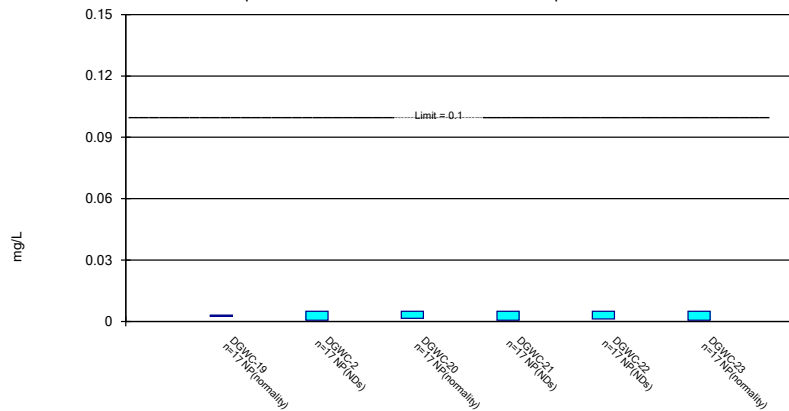
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 11/22/2022 9:38 AM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

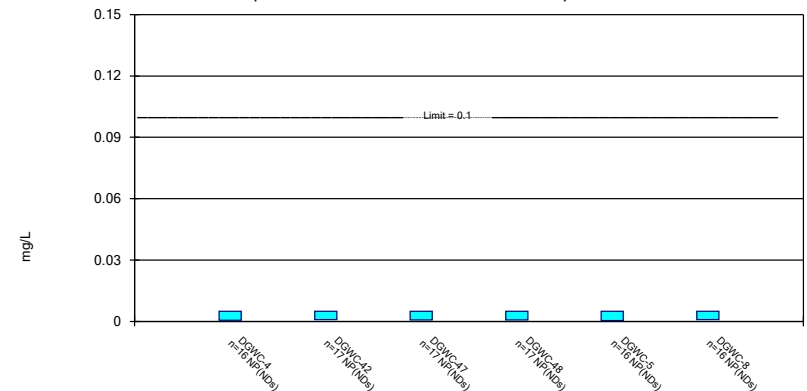
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 11/22/2022 9:38 AM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

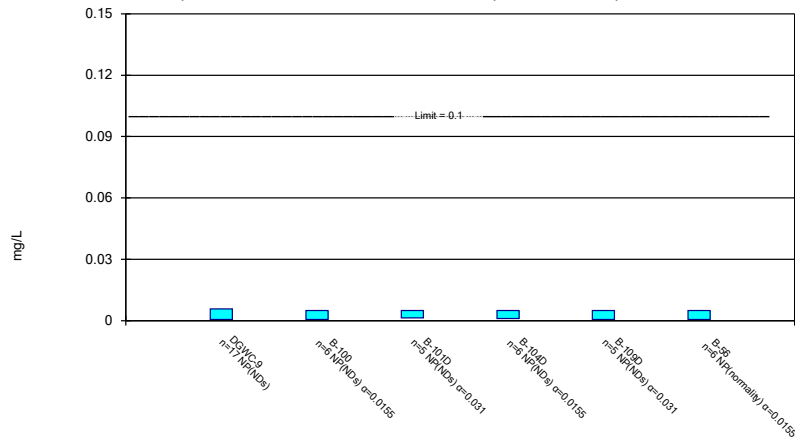
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 11/22/2022 9:38 AM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

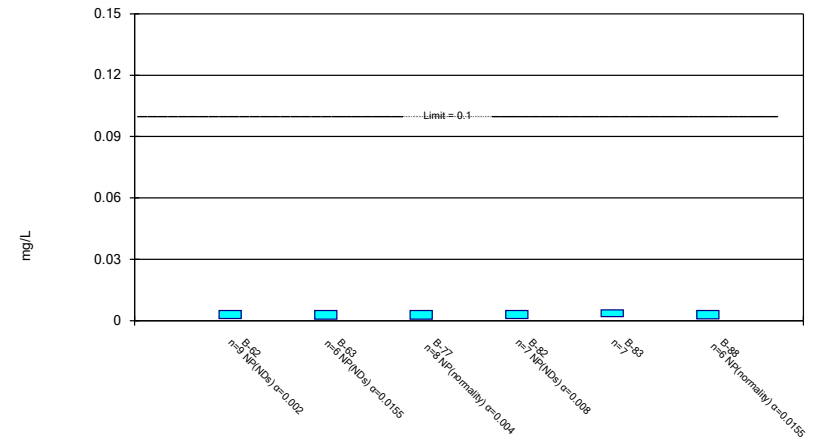
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Chromium Analysis Run 11/22/2022 9:38 AM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

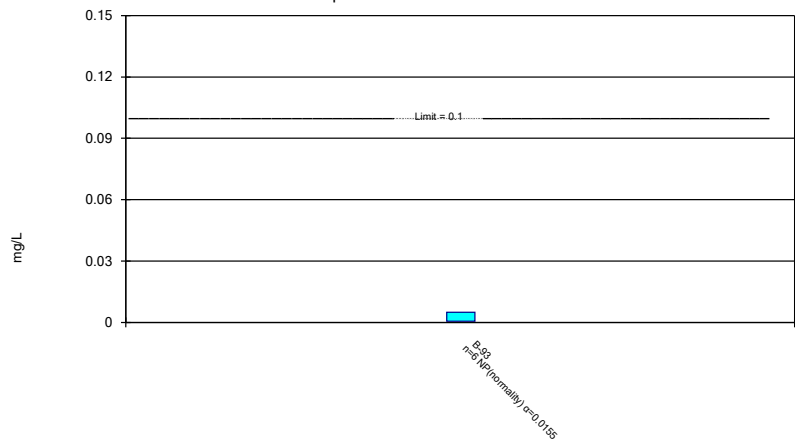
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 11/22/2022 9:38 AM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

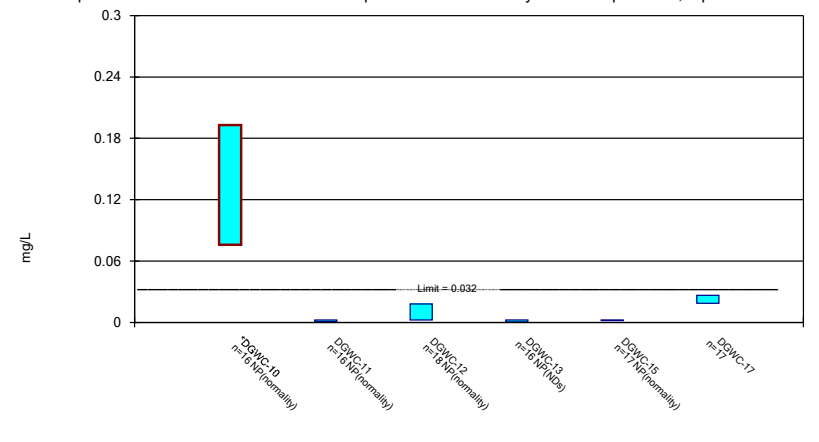
Compliance Limit is not exceeded.



Constituent: Chromium Analysis Run 11/22/2022 9:38 AM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

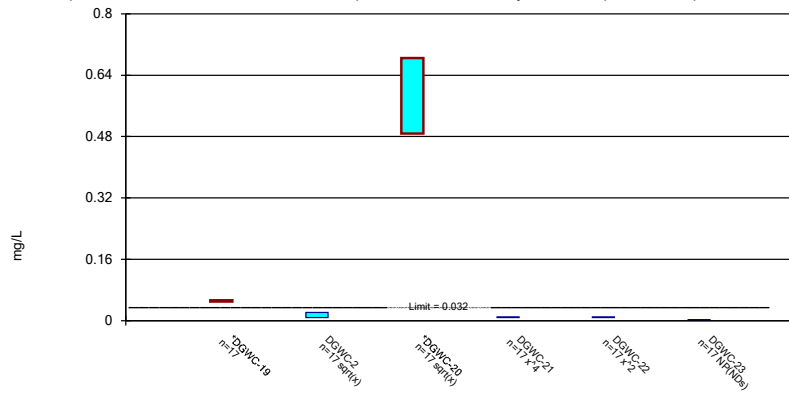
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 11/22/2022 9:38 AM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

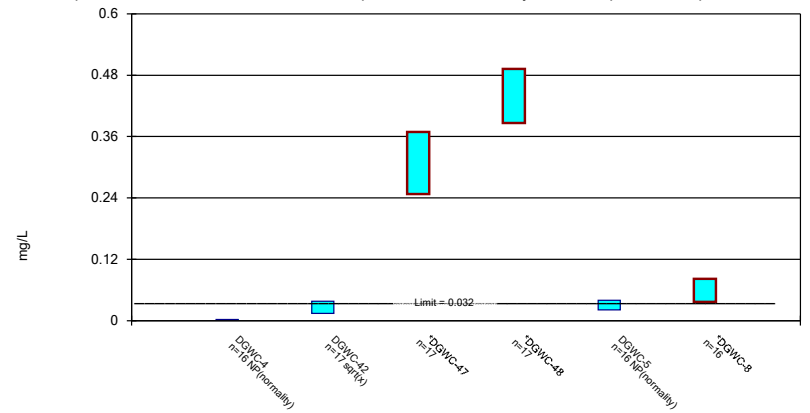
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 11/22/2022 9:38 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

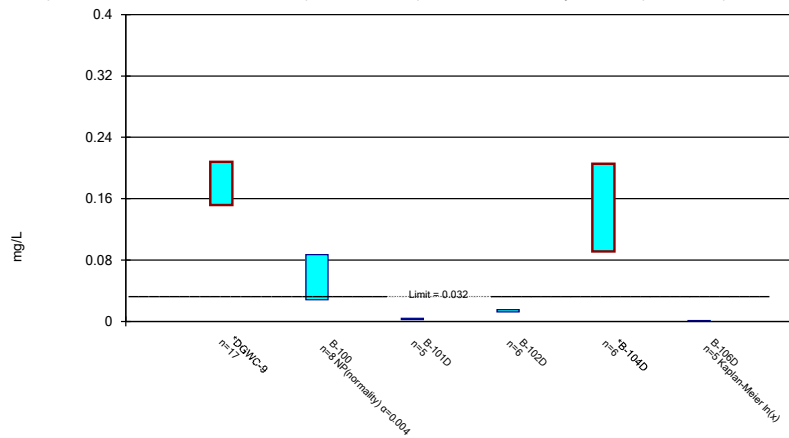
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 11/22/2022 9:38 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

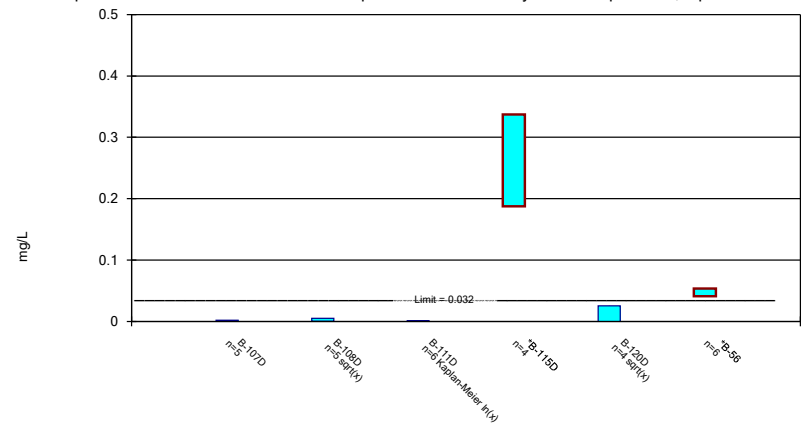
Compliance limit is exceeded.\* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 11/22/2022 9:38 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

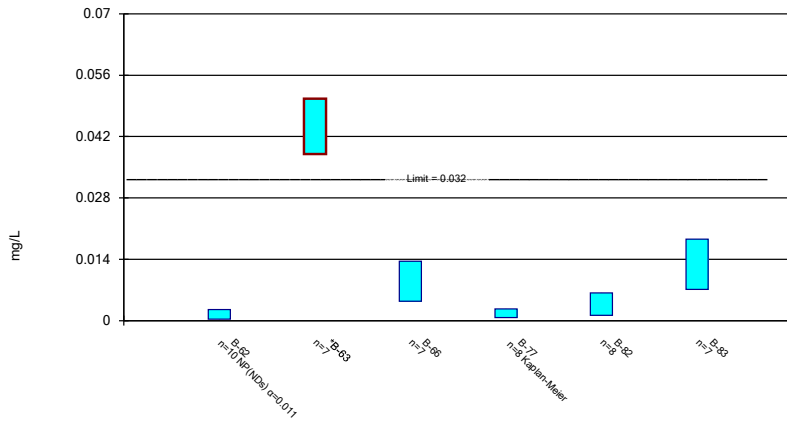
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 11/22/2022 9:38 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

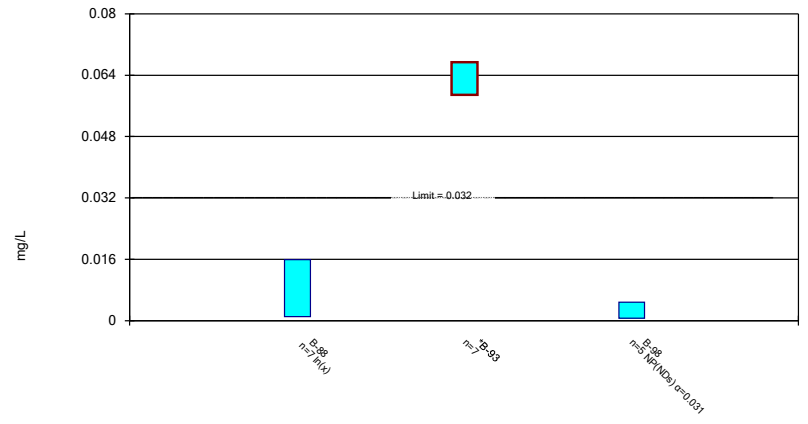
Compliance limit is exceeded.\* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 11/22/2022 9:38 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

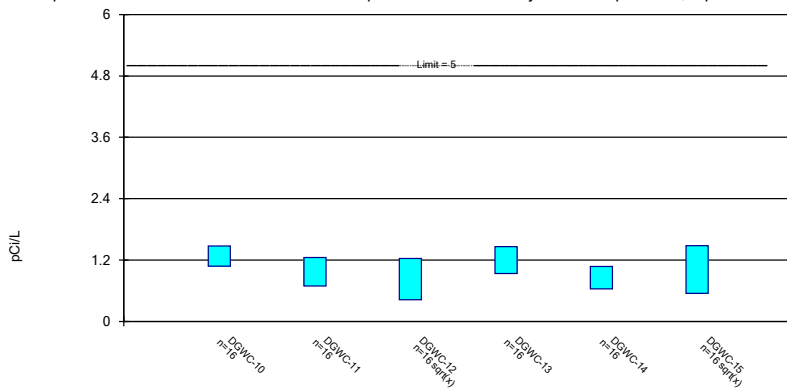
Compliance limit is exceeded.\* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 11/22/2022 9:38 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

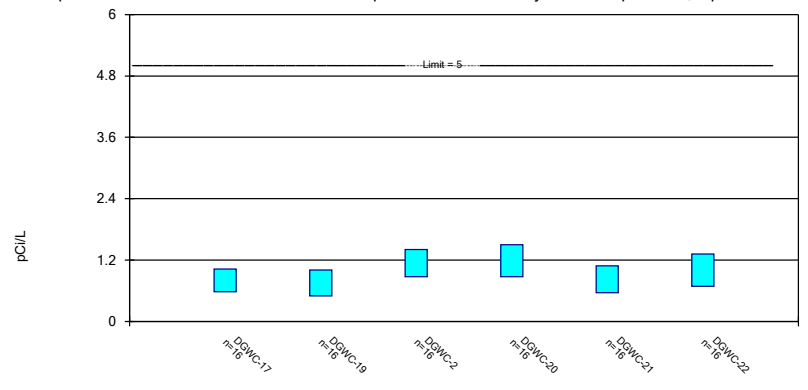
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 11/22/2022 9:38 AM View: AP 234 Confidence Int  
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

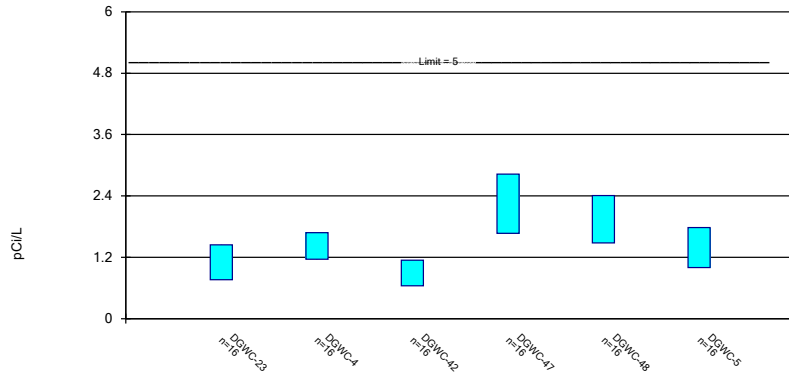
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 11/22/2022 9:38 AM View: AP 234 Confidence Int  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric Confidence Interval

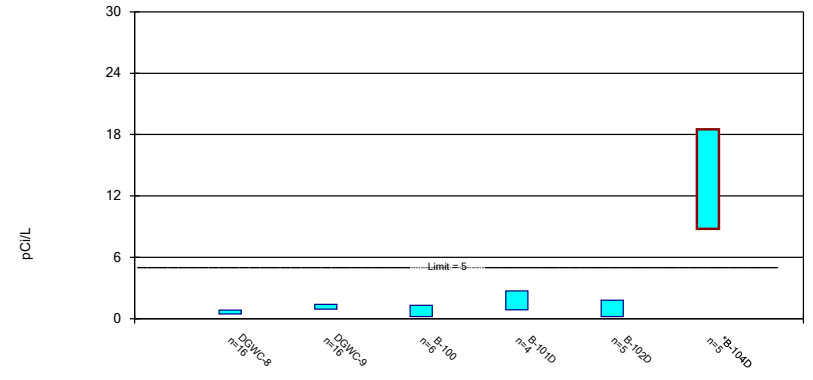
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 11/22/2022 9:38 AM View: AP 234 Confidence Int  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric Confidence Interval

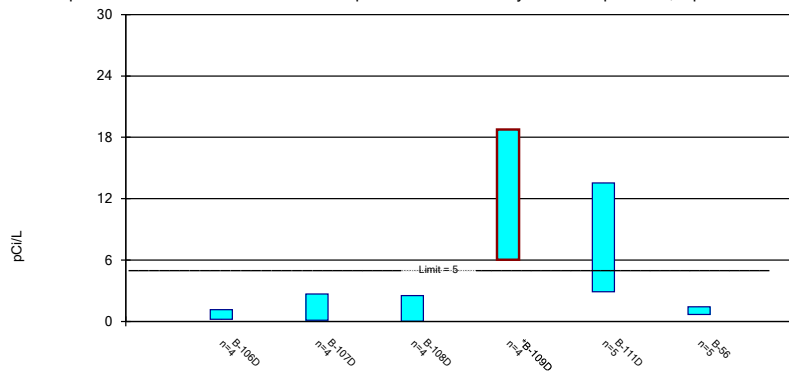
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 11/22/2022 9:39 AM View: AP 234 Confidence Int  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric Confidence Interval

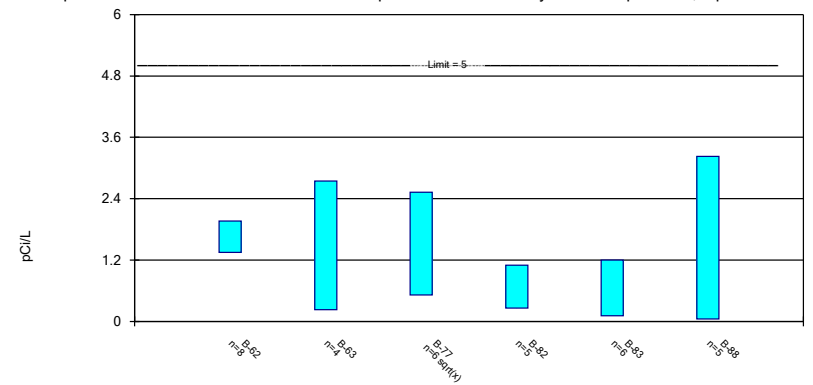
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 11/22/2022 9:39 AM View: AP 234 Confidence Int  
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.

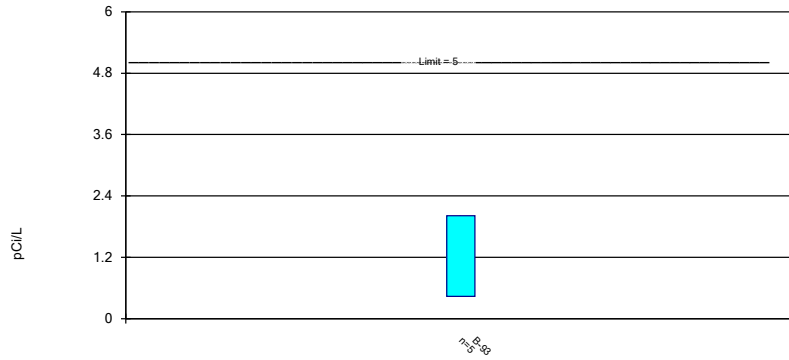


Constituent: Combined Radium 226 + 228 Analysis Run 11/22/2022 9:39 AM View: AP 234 Confidence Int  
Plant McDonough Client: Southern Company Data: McDonough AP



### Parametric Confidence Interval

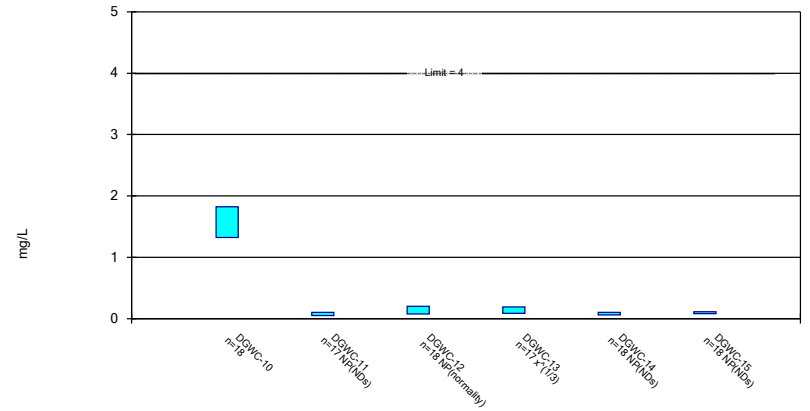
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 11/22/2022 9:39 AM View: AP 234 Confidence Int  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

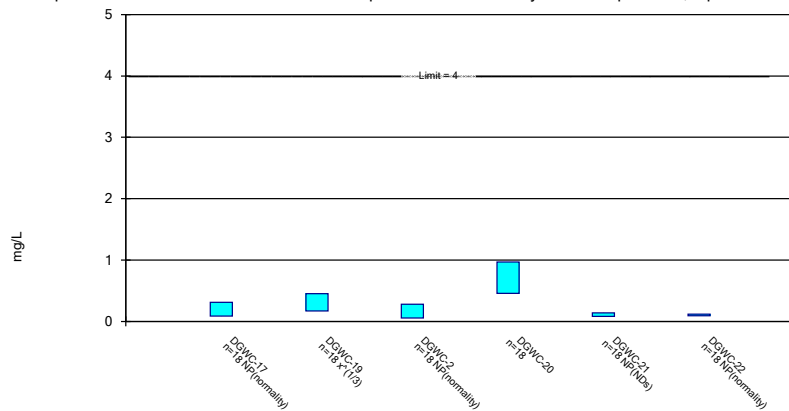
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 11/22/2022 9:39 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

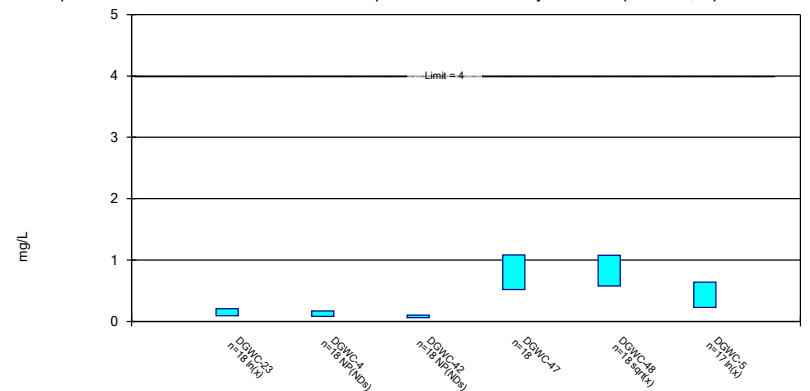
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 11/22/2022 9:39 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

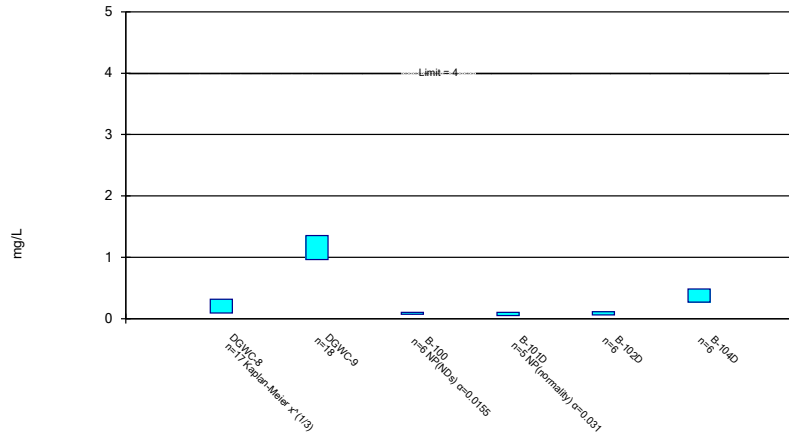
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 11/22/2022 9:39 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

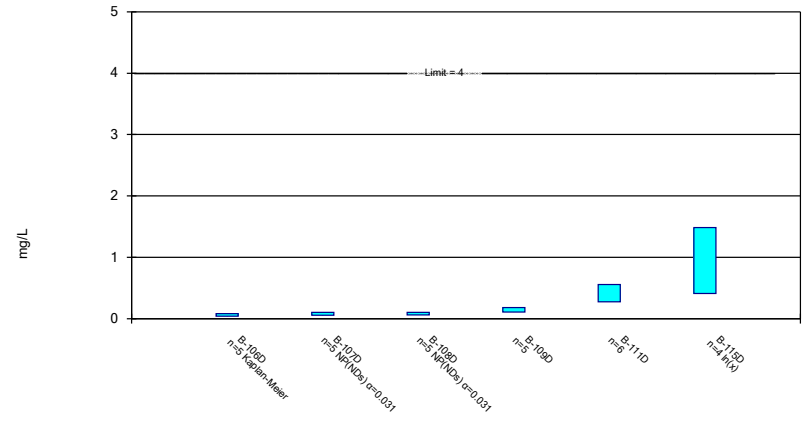
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 11/22/2022 9:39 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

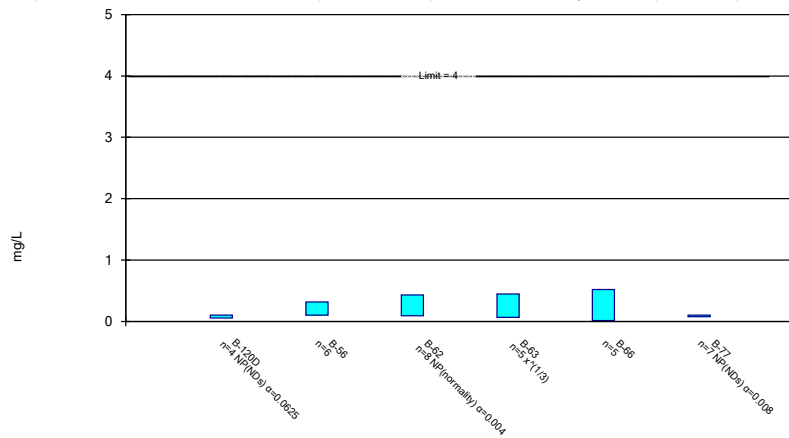
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 11/22/2022 9:39 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

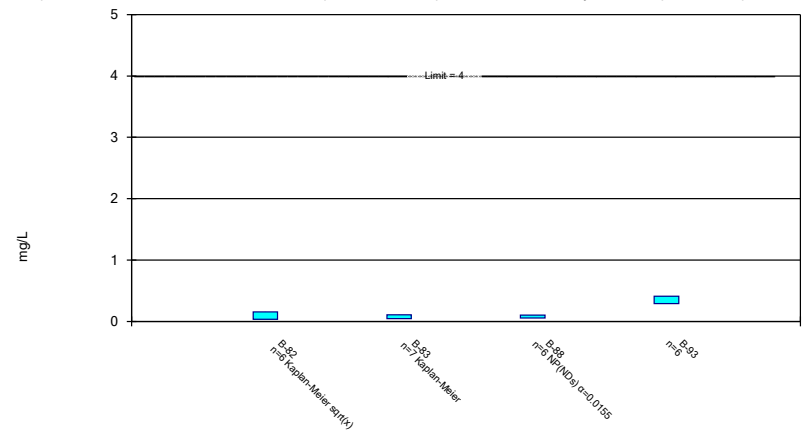
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 11/22/2022 9:39 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

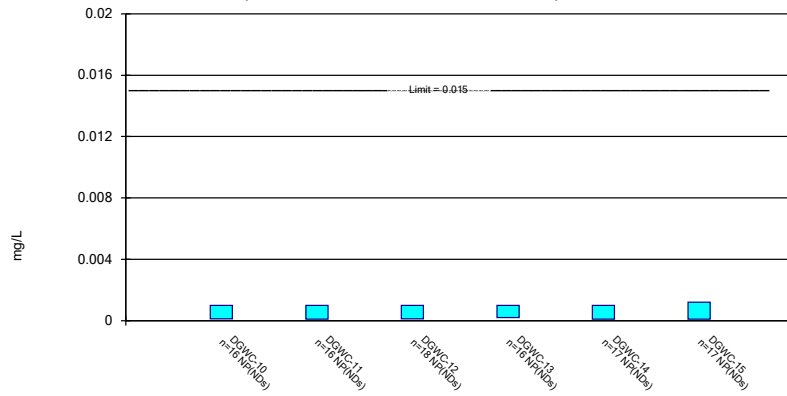
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 11/22/2022 9:39 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

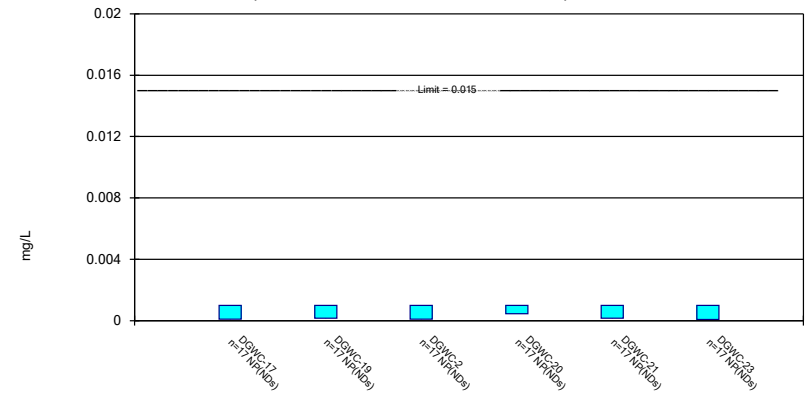
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 11/22/2022 9:39 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

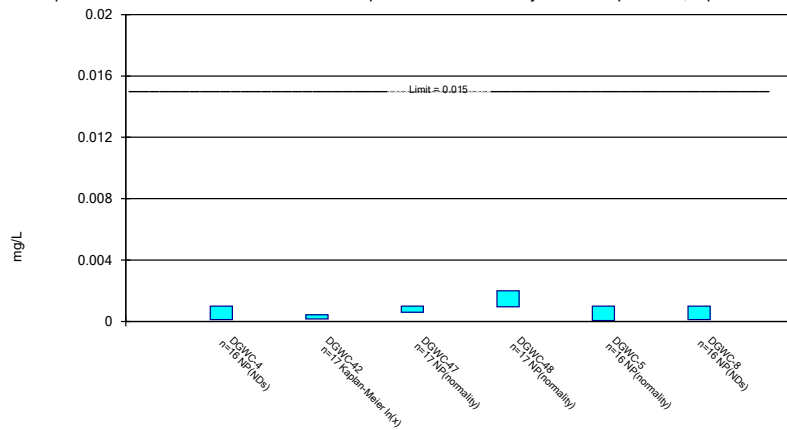
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 11/22/2022 9:39 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

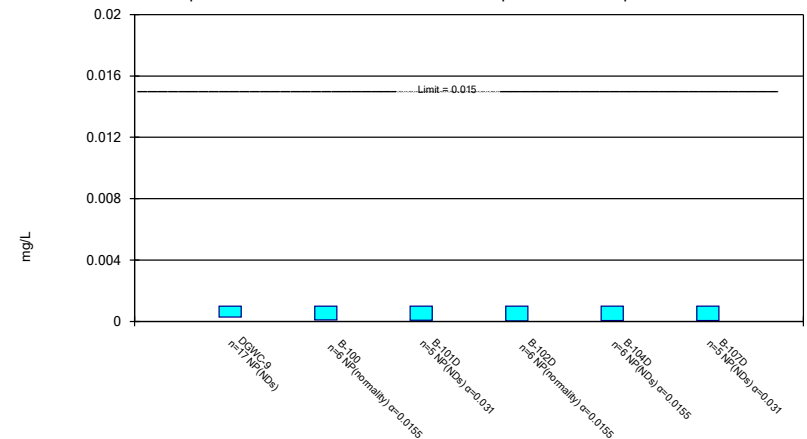
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 11/22/2022 9:39 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

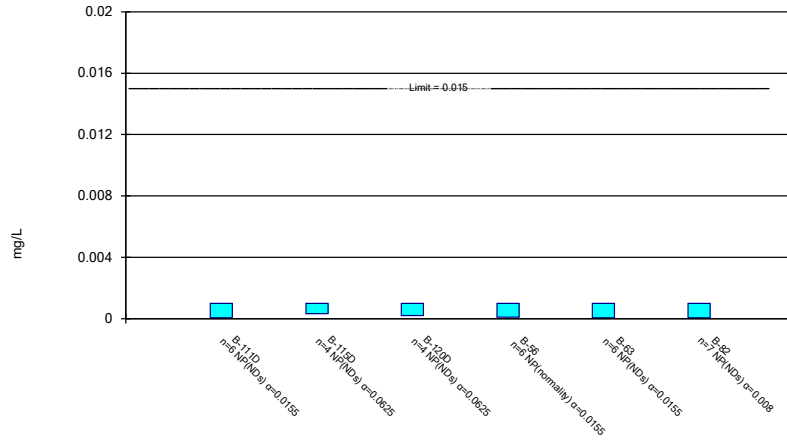
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Lead Analysis Run 11/22/2022 9:39 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

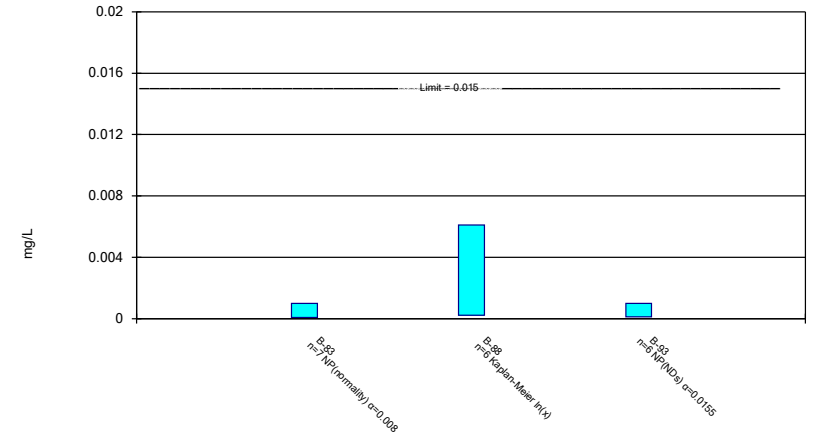
Compliance Limit is not exceeded.



Constituent: Lead Analysis Run 11/22/2022 9:39 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

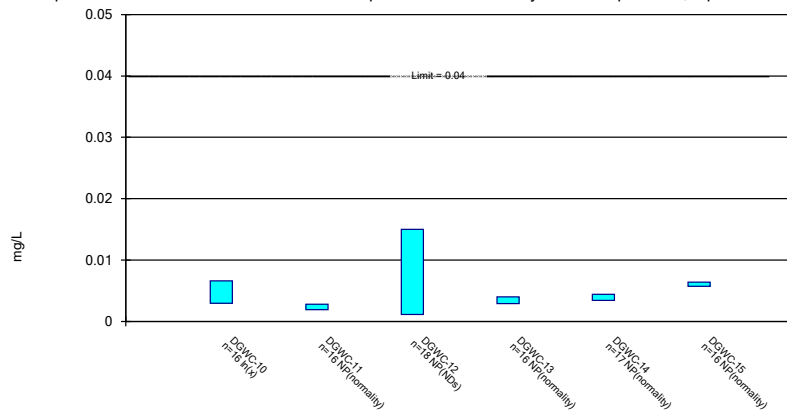
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 11/22/2022 9:39 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

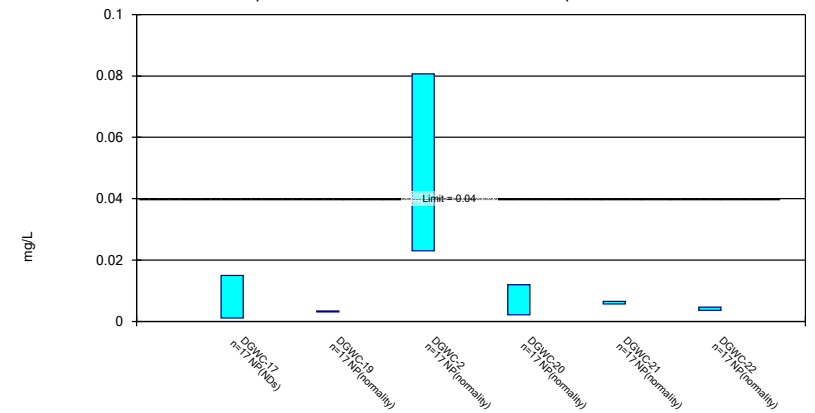
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 11/22/2022 9:39 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

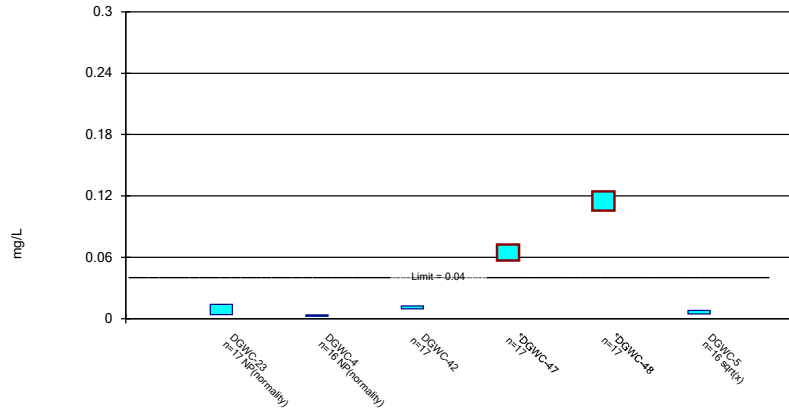
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lithium Analysis Run 11/22/2022 9:39 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

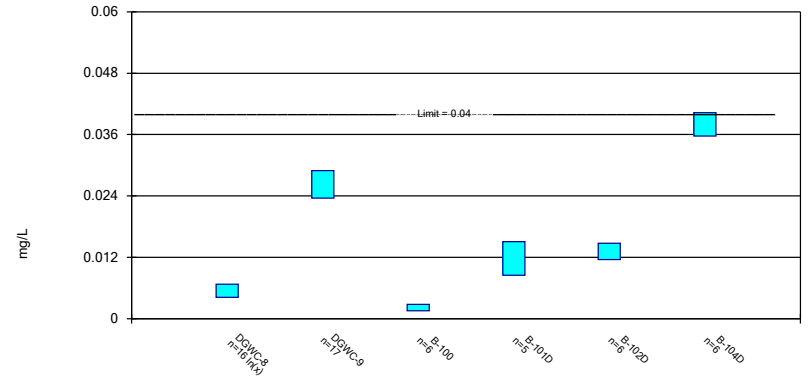
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 11/22/2022 9:39 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric Confidence Interval

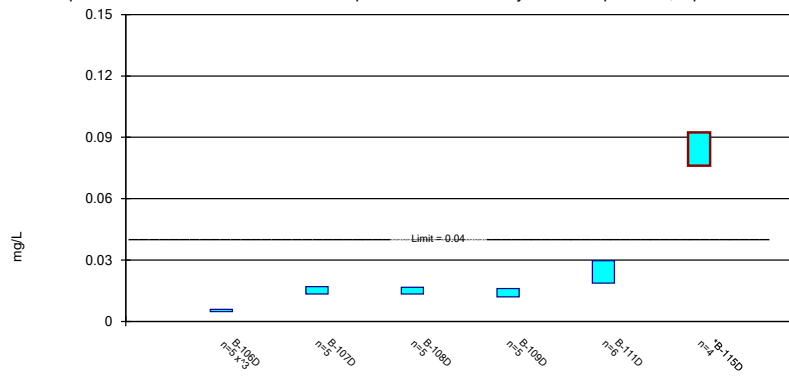
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 11/22/2022 9:39 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric Confidence Interval

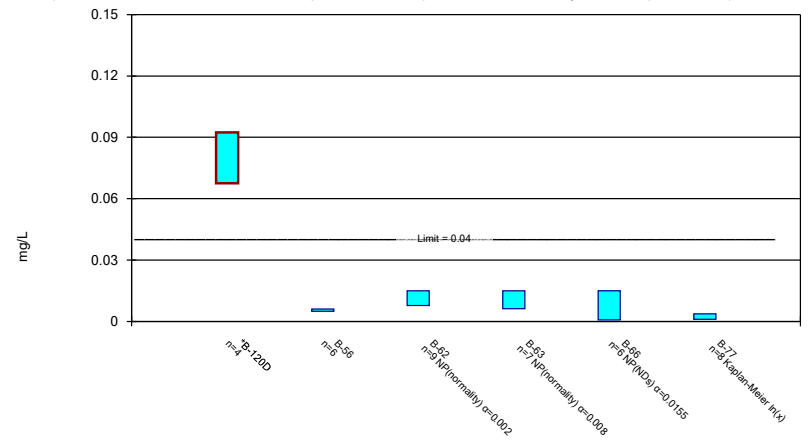
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 11/22/2022 9:39 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

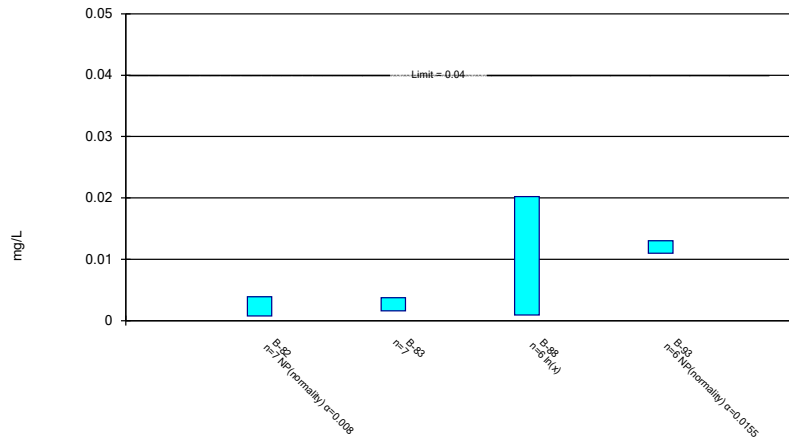
Compliance limit is exceeded.\* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 11/22/2022 9:39 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

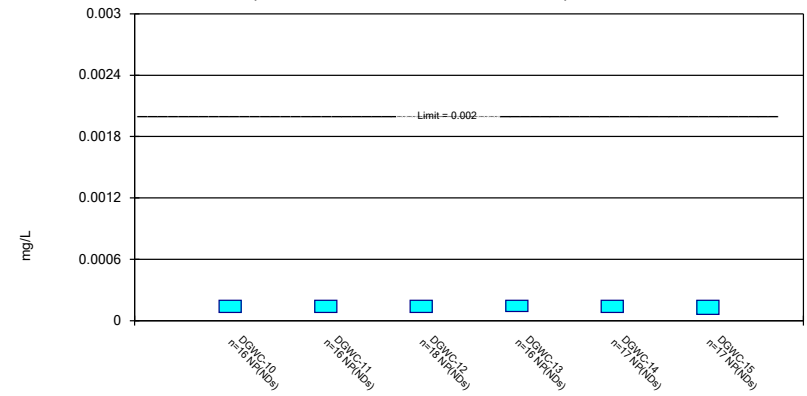
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 11/22/2022 9:39 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

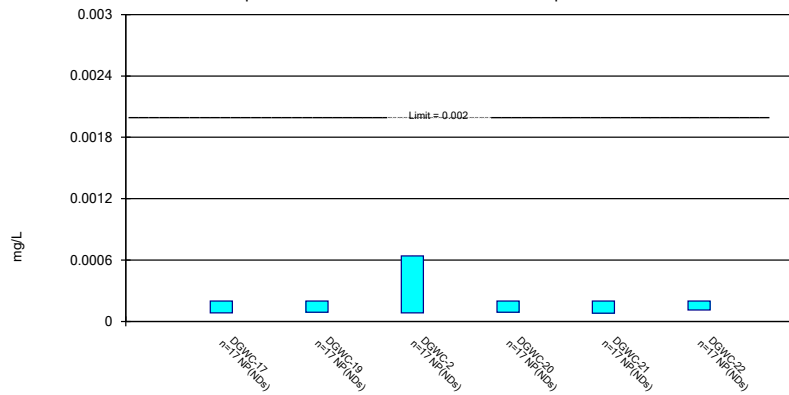
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 11/22/2022 9:39 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

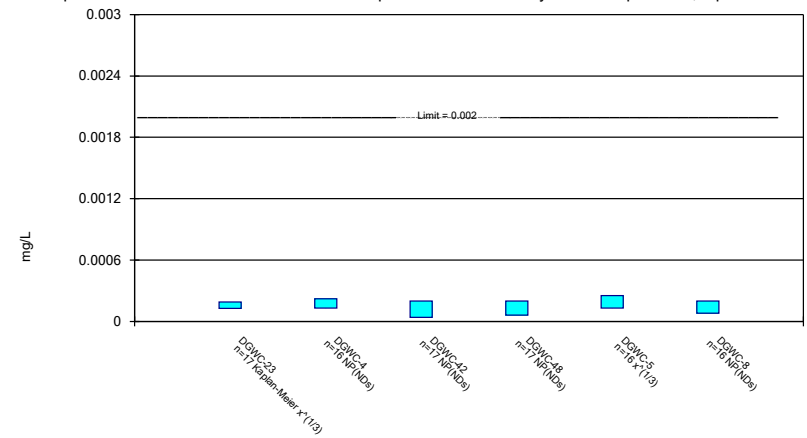
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 11/22/2022 9:39 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

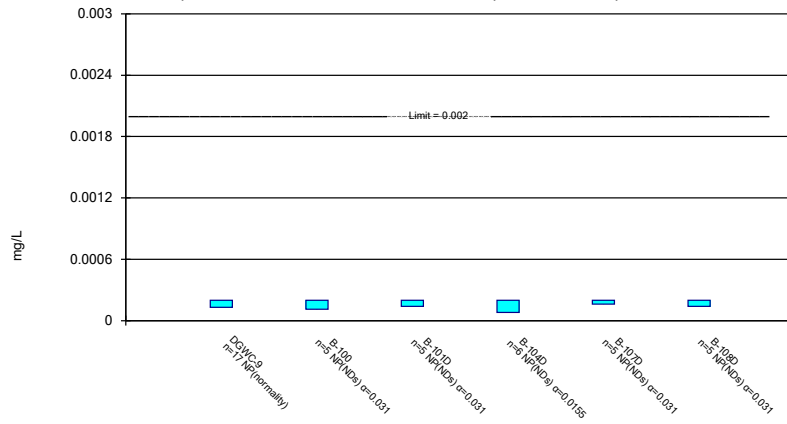
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Mercury Analysis Run 11/22/2022 9:39 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

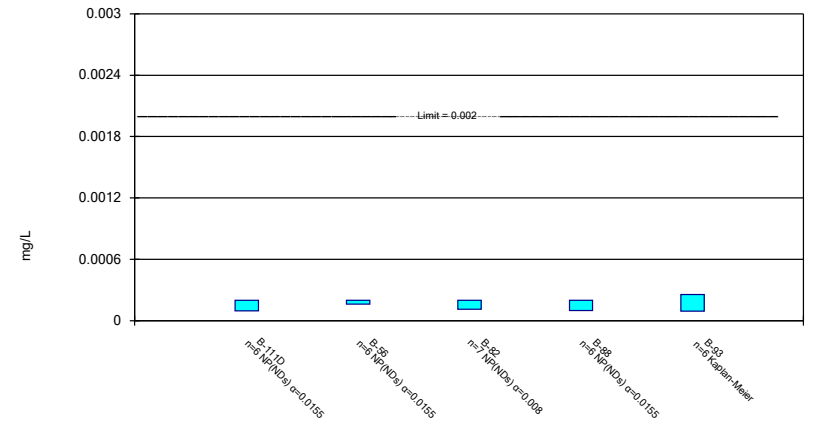
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Mercury Analysis Run 11/22/2022 9:39 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

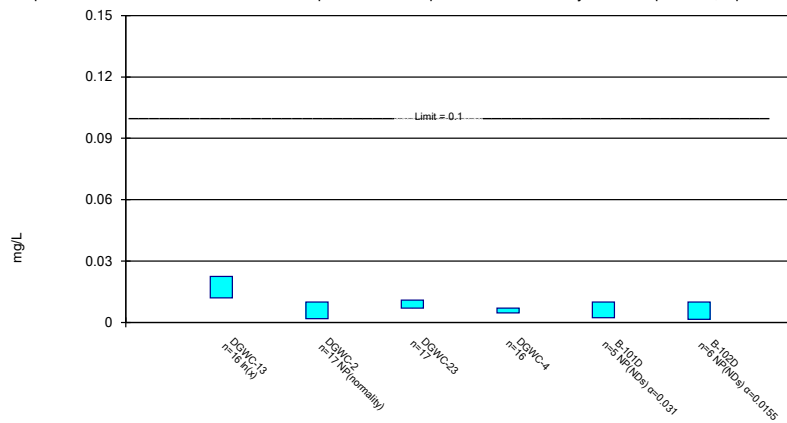
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Mercury Analysis Run 11/22/2022 9:39 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

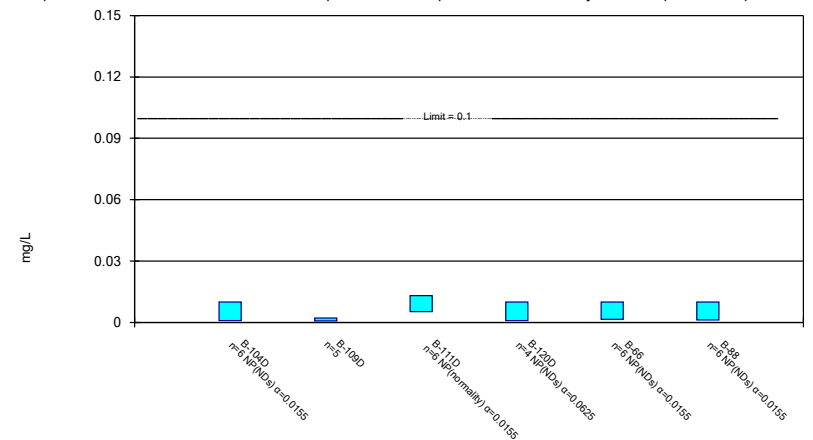
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 11/22/2022 9:39 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

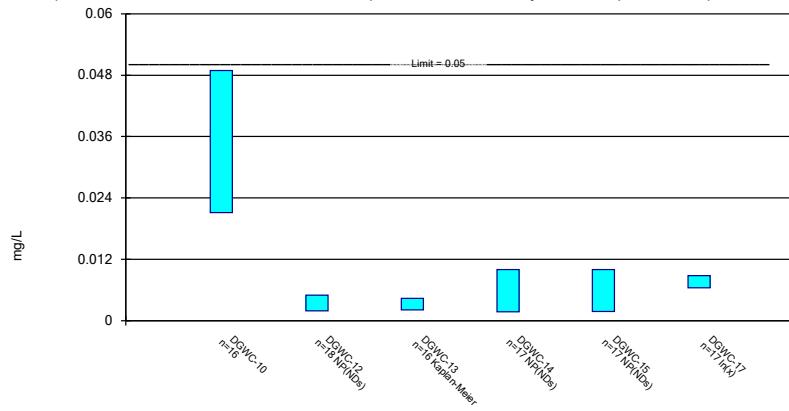
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 11/22/2022 9:39 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

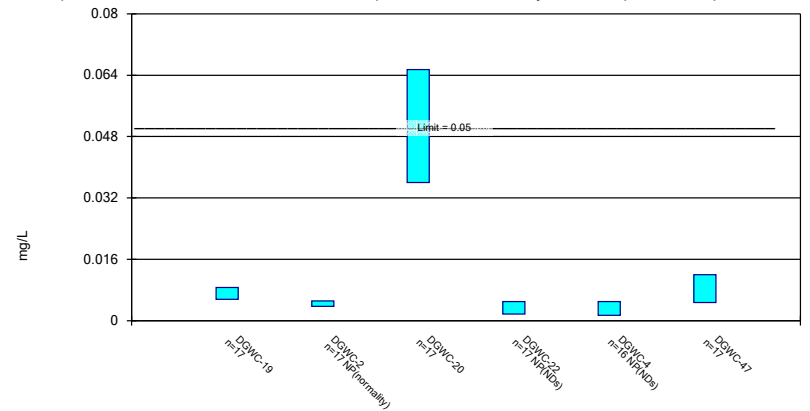
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 11/22/2022 9:39 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

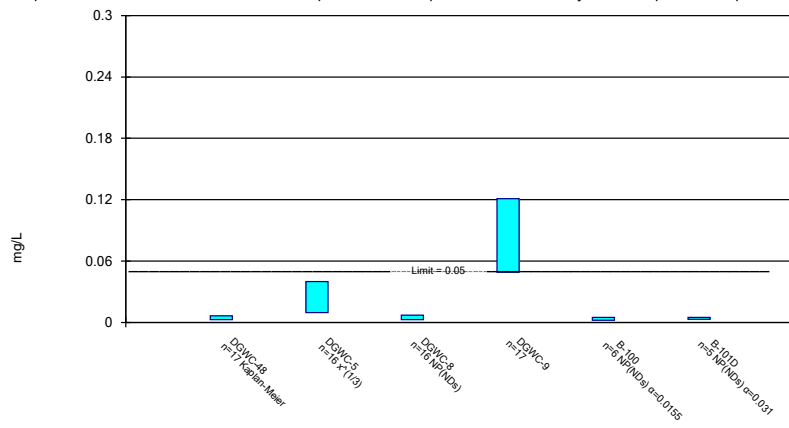
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 11/22/2022 9:39 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

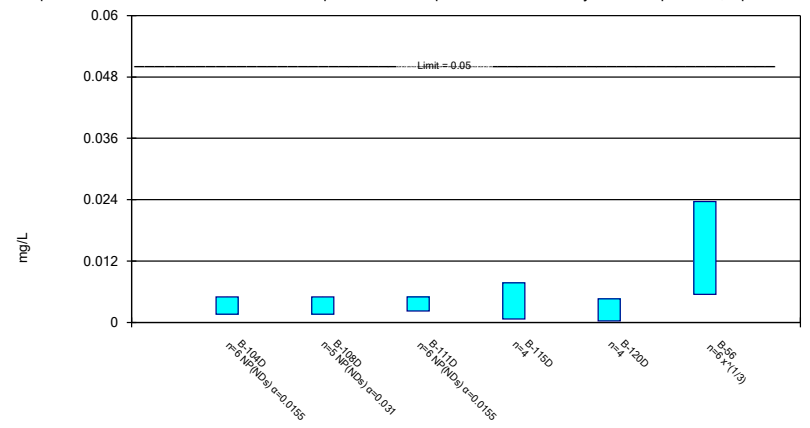
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 11/22/2022 9:40 AM 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.

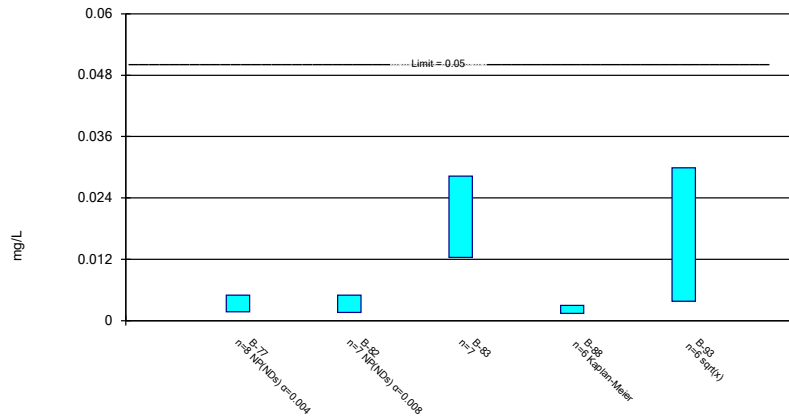


Constituent: Selenium Analysis Run 11/22/2022 9:40 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP



Parametric and Non-Parametric (NP) Confidence Interval

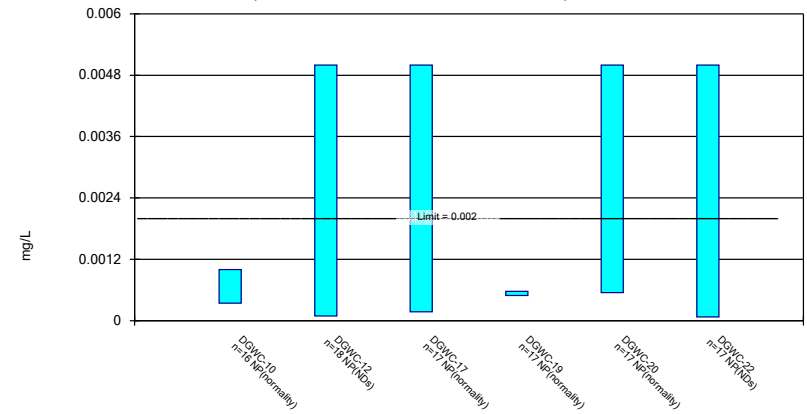
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 11/22/2022 9:40 AM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

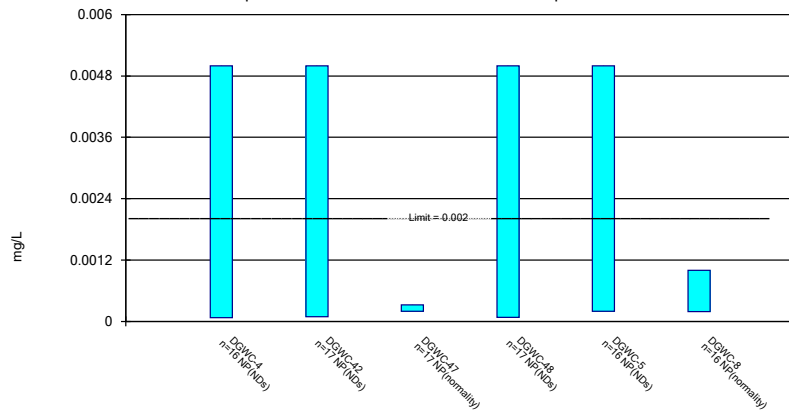
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 11/22/2022 9:40 AM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

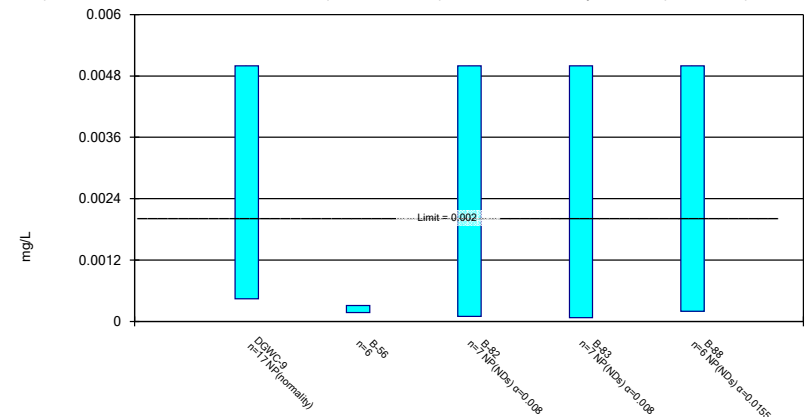
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 11/22/2022 9:40 AM 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 11/22/2022 9:40 AM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

# Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 11/22/2022 10:02 AM 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)					
9/13/2022			<0.003	<0.003		
9/14/2022					<0.003	<0.003
9/15/2022	<0.003	<0.003				
Mean	0.002944	0.00285	0.002888	0.002709	0.00285	0.002845
Std. Dev.	0.000225	0.0006364	0.0004608	0.0008233	0.0006185	0.0006403
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 11/22/2022 10:02 AM 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
9/13/2022					<0.003	<0.003
9/15/2022		<0.003				
9/19/2022				<0.003		
9/20/2022	<0.003		<0.003			
Mean	0.002859	0.0029	0.002865	0.002554	0.002894	0.002776

# Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-2	DGWC-21	DGWC-23	DGWC-4	DGWC-47	DGWC-48
Std. Dev.	0.0005821	0.0004123	0.0005578	0.0009598	0.0004366	0.00068
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 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-5	DGWC-8	B-100	B-101D	B-102D	B-104D
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)	
1/11/2021					<0.003	
1/12/2021				0.00039 (J)		0.00048 (J)
3/2/2021	0.0015 (J)	0.00046 (J)				
3/4/2021					<0.003	0.00077 (J)
3/5/2021				0.0019 (J)		
3/8/2021			0.0017 (J)			
9/10/2021	<0.003				<0.003	
9/13/2021		<0.003	<0.003	0.001 (J)		
9/14/2021						<0.003
1/21/2022			<0.003			
1/24/2022	<0.003					0.001 (J)
1/25/2022		<0.003				
1/26/2022				0.00082 (J)		
1/27/2022					<0.003	
9/8/2022			<0.003			
9/13/2022						<0.003
9/14/2022	<0.003					
9/15/2022		<0.003			<0.003	
9/16/2022				<0.003		
Mean	0.002739	0.002841	0.0025	0.001422	0.002767	0.001507
Std. Dev.	0.0007457	0.000635	0.0007849	0.00104	0.0005715	0.001169
Upper Lim.	0.003	0.003	0.003	0.00195	0.003	0.00106
Lower Lim.	0.0015	0.00046	0.0013	0.0001053	0.0016	0.0005099

# Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-106D	B-111D	B-120D	B-56	B-62	B-63
1/28/2019						<0.003
1/30/2019					<0.003	
9/11/2019					<0.003	<0.003
10/21/2019					<0.003	
10/22/2019						0.00066 (J)
8/13/2020					<0.003	
8/17/2020				<0.003		
9/24/2020					0.00046 (J)	
9/28/2020				<0.003		
12/9/2020		<0.003				
12/17/2020	0.00048 (J)					
1/12/2021		<0.003				
3/3/2021				<0.003		
3/4/2021	<0.003					
3/5/2021		0.0006 (J)				
3/12/2021					<0.003	
4/15/2021			0.00029 (J)			
9/9/2021					<0.003	
9/13/2021	<0.003			<0.003		
9/14/2021		<0.003	<0.003			<0.003
1/20/2022			<0.003		<0.003	<0.003
1/24/2022		<0.003				
1/25/2022	<0.003					
1/27/2022				0.0011 (J)		
9/8/2022					<0.003	
9/14/2022		<0.003				<0.003
9/16/2022	<0.003			<0.003		
9/19/2022			<0.003			
Mean	0.002496	0.0026	0.002323	0.002683	0.002718	0.00261
Std. Dev.	0.001127	0.0009798	0.001355	0.0007757	0.0008467	0.0009553
Upper Lim.	0.003	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.00048	0.0006	0.00029	0.0011	0.00046	0.00066

# Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

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	B-77	B-93
9/18/2019	<0.003	
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	
9/15/2021		<0.003
1/20/2022	<0.003	
1/26/2022		<0.003
9/12/2022		0.00096 (J)
9/13/2022	<0.003	
Mean	0.002053	0.002393
Std. Dev.	0.00131	0.0009501
Upper Lim.	0.003	0.003
Lower Lim.	0.00036	0.00096

# Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 11/22/2022 10:02 AM 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)					
9/13/2022			<0.005	<0.005		
9/14/2022					<0.005	<0.005
9/15/2022	0.0024 (J)	<0.005				
Mean	0.005131	0.004513	0.004729	0.004267	0.003372	0.002421
Std. Dev.	0.002471	0.001418	0.001118	0.001638	0.002014	0.001611
Upper Lim.	0.006739	0.005	0.005	0.005	0.005	0.00192
Lower Lim.	0.003524	0.00063	0.00039	0.0013	0.0011	0.0009543



# Confidence Interval

Constituent: Arsenic (mg/L)    Analysis Run 11/22/2022 10:02 AM    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)		
9/13/2022					<0.005	<0.005
9/15/2022		0.016				

# Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-2	DGWC-20	DGWC-22	DGWC-4	DGWC-42	DGWC-47
9/16/2022			<0.005			
9/19/2022				<0.005		
9/20/2022	<0.005					
Mean	0.004458	0.01248	0.004765	0.003931	0.004518	0.002824
Std. Dev.	0.001241	0.006428	0.0009701	0.001916	0.001363	0.001533
Upper Lim.	0.005	0.01651	0.005	0.005	0.005	0.002756
Lower Lim.	0.0025	0.008455	0.001	0.0008	0.0011	0.001467

# Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 11/22/2022 10:02 AM 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	
9/13/2022	<0.005					<0.005
9/14/2022		0.0038 (J)				
9/15/2022			<0.005			
9/16/2022					<0.005	
9/19/2022				0.016		
Mean	0.003417	0.007744	0.003854	0.02248	0.00434	0.003817
Std. Dev.	0.001968	0.009484	0.00177	0.009441	0.001476	0.001393

# Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-48	DGWC-5	DGWC-8	DGWC-9	B-101D	B-104D
Upper Lim.	0.005	0.008917	0.005	0.0284	0.005	0.003563
Lower Lim.	0.0012	0.002832	0.0012	0.01657	0.0017	0.001776

# Confidence Interval

Constituent: Arsenic (mg/L)    Analysis Run 11/22/2022 10:02 AM    View: AP 234 Confidence Intervals  
 Plant McDonough    Client: Southern Company    Data: McDonough AP

	B-109D	B-111D	B-115D	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		<0.005				
1/12/2021		<0.005				
1/13/2021	<0.005					
3/3/2021					0.003 (J)	
3/5/2021		0.0023 (J)				
3/8/2021	<0.005					
3/12/2021						<0.005
4/14/2021			0.0028 (J)			
4/15/2021				<0.005		
9/9/2021						<0.005
9/10/2021	<0.005					
9/13/2021					0.0031 (J)	
9/14/2021		0.0029 (J)	0.0018 (J)	<0.005		
1/20/2022	0.0026 (J)		0.0027 (J)	0.0016 (J)		0.0033 (J)
1/24/2022		0.0022 (J)				
1/27/2022					0.0045 (J)	
9/8/2022						<0.005
9/14/2022		<0.005	<0.005			
9/16/2022					<0.005	
9/19/2022				<0.005		
9/20/2022	<0.005					
Mean	0.00452	0.003733	0.003075	0.00415	0.003917	0.004811
Std. Dev.	0.001073	0.001408	0.00136	0.0017	0.0009109	0.0005667
Upper Lim.	0.005	0.005	0.003454	0.005	0.004698	0.005
Lower Lim.	0.0026	0.0022	0.001412	0.0016	0.00253	0.0033

# Confidence Interval

Constituent: Arsenic (mg/L)    Analysis Run 11/22/2022 10:02 AM    View: AP 234 Confidence Intervals  
 Plant McDonough    Client: Southern Company    Data: McDonough AP

	B-63	B-77	B-82	B-83	B-93
1/28/2019	<0.005				
9/11/2019	<0.005				
9/18/2019		<0.005			
9/23/2019			<0.005		
10/21/2019			<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		
8/19/2020					0.0013 (J)
9/24/2020		0.0025 (J)			
9/25/2020				<0.005	
9/28/2020			<0.005		0.0027 (J)
3/4/2021		0.002 (J)		<0.005	
3/9/2021					<0.005
3/12/2021			<0.005		
9/14/2021	<0.005	<0.005	<0.005		
9/15/2021					<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			0.003 (J)		
1/26/2022					0.002 (J)
9/12/2022					<0.005
9/13/2022		<0.005		<0.005	
9/14/2022	<0.005				
9/16/2022			<0.005 (D)		
Mean	0.004533	0.003425	0.00475	0.004486	0.0035
Std. Dev.	0.001143	0.001353	0.0007071	0.001361	0.001702
Upper Lim.	0.005	0.005	0.005	0.005	0.002828
Lower Lim.	0.0022	0.002	0.003	0.0014	0.001247

# Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/22/2022 10:02 AM 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					
9/13/2022					0.063	0.042
9/15/2022	0.018	0.047	0.035	0.027		
Mean	0.02554	0.05959	0.03004	0.02888	0.06062	0.04681
Std. Dev.	0.004884	0.008265	0.008517	0.006884	0.003446	0.00487
Upper Lim.	0.02872	0.06496	0.03435	0.03235	0.06278	0.04986
Lower Lim.	0.02237	0.05421	0.0249	0.02732	0.05846	0.04375

# Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/22/2022 10:02 AM 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				
9/14/2022	0.031	0.027				
9/15/2022				0.017	0.024	
9/16/2022						0.029
9/20/2022			0.02			
Mean	0.04689	0.02394	0.02188	0.01289	0.02573	0.03415
Std. Dev.	0.01177	0.002698	0.001054	0.004613	0.001551	0.004449
Upper Lim.	0.05427	0.02563	0.02255	0.01578	0.0272	0.03693
Lower Lim.	0.03952	0.02224	0.02124	0.009998	0.024	0.03136



# Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/22/2022 10:02 AM 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
9/13/2022			0.016	0.022	0.014	
9/14/2022						0.018
9/19/2022		0.032				
9/20/2022	0.019					

# Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
Mean	0.02118	0.0341	0.01796	0.01805	0.01371	0.01749
Std. Dev.	0.003931	0.002676	0.003173	0.002812	0.0009565	0.001173
Upper Lim.	0.02336	0.03584	0.01995	0.01982	0.0155	0.01829
Lower Lim.	0.01875	0.03236	0.01598	0.01629	0.013	0.0167

# Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/22/2022 10:02 AM 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	
9/8/2022			0.021			
9/13/2022						0.021
9/15/2022	0.021				0.019	
9/16/2022				0.063		
9/19/2022		0.017				
Mean	0.03081	0.01565	0.02067	0.0682	0.0215	0.0225
Std. Dev.	0.008607	0.001031	0.002875	0.007155	0.001761	0.002074
Upper Lim.	0.03641	0.01629	0.02353	0.076	0.02392	0.026
Lower Lim.	0.02521	0.015	0.01731	0.062	0.01908	0.021

# Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
12/9/2020		0.13	0.066		0.027	
12/17/2020	0.022					
1/12/2021					0.027	
1/13/2021				0.06		
3/4/2021	0.021	0.12	0.06			
3/5/2021					0.038	
3/8/2021				0.056		
4/14/2021						0.018
9/10/2021				0.022		
9/13/2021	0.02	0.087				
9/14/2021			0.06		0.043	0.016
1/20/2022				0.047		0.015
1/24/2022		0.092	0.056		0.038	
1/25/2022	0.02					
9/14/2022		0.057			0.028	0.014
9/15/2022			0.054			
9/16/2022	0.021					
9/20/2022				0.055		
Mean	0.0208	0.0972	0.0592	0.048	0.0335	0.01575
Std. Dev.	0.0008367	0.02891	0.004604	0.01528	0.007007	0.001708
Upper Lim.	0.0222	0.1456	0.06692	0.06745	0.04313	0.01963
Lower Lim.	0.0194	0.04876	0.05148	0.02078	0.02387	0.01187

# Confidence Interval

Constituent: Barium (mg/L)    Analysis Run 11/22/2022 10:02 AM    View: AP 234 Confidence Intervals  
 Plant McDonough    Client: Southern Company    Data: McDonough AP

	B-120D	B-56	B-62	B-63	B-66	B-77
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
10/21/2019			0.026		0.018	
10/22/2019				0.021		
10/24/2019						0.1
8/13/2020			0.026			0.11
8/17/2020		0.03				
9/24/2020			0.025			0.12
9/28/2020		0.026				
3/3/2021		0.028				
3/4/2021						0.11
3/12/2021			0.027			
4/15/2021	0.044					
9/9/2021			0.021			
9/13/2021		0.026				
9/14/2021	0.031			0.026	0.018	0.12
1/20/2022	0.025		0.021	0.02		0.13
1/25/2022					0.021	
1/27/2022		0.03				
9/8/2022			0.018			
9/13/2022						0.089
9/14/2022				0.032		
9/16/2022		0.028			0.02	
9/19/2022	0.023					
Mean	0.03075	0.028	0.02278	0.02467	0.01833	0.1081
Std. Dev.	0.009465	0.001789	0.003456	0.004803	0.001862	0.01553
Upper Lim.	0.05224	0.03046	0.02611	0.03126	0.02089	0.1246
Lower Lim.	0.009261	0.02554	0.01944	0.01807	0.01578	0.09166

# Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-82	B-83	B-88	B-93
9/23/2019	0.031			
10/21/2019	0.03	0.034		
8/14/2020		0.056		
8/17/2020	0.024		0.022	
8/19/2020				0.018
9/25/2020		0.027	0.021	
9/28/2020	0.023			0.017
3/4/2021		0.032		
3/5/2021			0.022	
3/9/2021				0.016 (J)
9/13/2021			0.016	
9/14/2021	0.022			
9/15/2021				0.016
9/16/2021		0.03		
1/21/2022		0.024		
1/25/2022	0.026			
1/26/2022				0.021
1/27/2022			0.018	
9/12/2022				0.015
9/13/2022		0.025		
9/16/2022	0.02		0.016	
Mean	0.02514	0.03257	0.01917	0.01717
Std. Dev.	0.0041	0.01095	0.002858	0.002137
Upper Lim.	0.03001	0.044	0.02288	0.0201
Lower Lim.	0.02027	0.02231	0.015	0.01423

# Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 11/22/2022 10:02 AM 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					
9/13/2022					<0.0005	
9/14/2022						0.00058
9/15/2022	0.0063	0.00018 (J)	0.00019 (J)	8E-05 (J)		
Mean	0.007475	0.00027	0.0002777	0.0002519	0.0003105	0.0005447
Std. Dev.	0.002377	0.0003324	0.0003179	0.000344	0.0003101	0.0001249
Upper Lim.	0.009022	0.00025	0.00025	0.00025	0.0015	0.0006196
Lower Lim.	0.005928	0.00013	0.00016	7.3E-05	0.00022	0.0004888

# Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 11/22/2022 10:02 AM 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					
9/14/2022	0.0018					
9/15/2022		0.0056	0.00018 (J)			
9/16/2022				0.00023 (J)		
9/19/2022						0.00034 (J)



# Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-19	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4
9/20/2022					0.00037 (J)	
Mean	0.001797	0.003879	0.0002488	0.0002506	0.0004912	0.0003069
Std. Dev.	0.0004339	0.002224	0.0003249	0.0003242	0.0002804	0.0003249
Upper Lim.	0.002008	0.005273	0.0002	0.00023	0.0005	0.00033
Lower Lim.	0.00171	0.002486	0.00015	0.00014	0.00038	0.00019

# Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 11/22/2022 10:02 AM 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
9/13/2022	0.0028	0.0094	0.0071			
9/14/2022				0.01		
9/15/2022					0.00088	
9/19/2022						0.0047
Mean	0.002326	0.01077	0.008218	0.007663	0.002174	0.005371
Std. Dev.	0.0006783	0.002649	0.001265	0.001768	0.001104	0.0006881

# Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
Upper Lim.	0.002711	0.01243	0.008951	0.008813	0.002763	0.005802
Lower Lim.	0.002083	0.009111	0.007416	0.006512	0.001459	0.004939

# Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 11/22/2022 10:02 AM 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			
9/8/2022	0.00058					
9/13/2022				0.0014		
9/14/2022						<0.0005
9/15/2022			0.001			
9/16/2022		6.7E-05 (J)			0.00011 (J)	
Mean	0.000475	6.52E-05	0.001183	0.001333	0.00012	0.00021
Std. Dev.	8.781E-05	1.15E-05	0.0001472	0.0001633	1E-05	8.944E-05
Upper Lim.	0.0005956	8.447E-05	0.001386	0.001558	0.0001368	0.00025
Lower Lim.	0.0003544	4.593E-05	0.0009811	0.001109	0.0001032	5E-05

# Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-109D	B-115D	B-120D	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				0.0013 (J)		
9/24/2020					0.00013 (J)	
9/28/2020				0.0012 (J)		
1/13/2021	5.9E-05 (J)					
3/3/2021				0.0011		
3/8/2021	7.9E-05 (J)					
3/12/2021					<0.0005	
4/14/2021		0.012				
4/15/2021			0.00085			
9/9/2021					0.00014 (J)	
9/10/2021	<0.0005					
9/13/2021				0.0012		
9/14/2021		0.011	0.00087			0.00042 (J)
1/20/2022	7.1E-05 (J)	0.011	0.0011		0.00015 (J)	0.00034 (J)
1/27/2022				0.0012		
9/8/2022					0.00013 (J)	
9/14/2022		0.01				0.00053
9/16/2022				0.0013		
9/19/2022			0.0011			
9/20/2022	8E-05 (J)					
Mean	0.0001078	0.011	0.00098	0.001217	0.0001448	0.000385
Std. Dev.	7.994E-05	0.0008165	0.0001388	7.528E-05	5.955E-05	9.426E-05
Upper Lim.	0.00025	0.01285	0.0011	0.00132	0.0001362	0.0004849
Lower Lim.	5.9E-05	0.009146	0.00085	0.001113	9.267E-05	0.0002851

# Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-77	B-82	B-83	B-88	B-92	B-93
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					
12/18/2019					0.022	
12/19/2019						0.0069
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
9/13/2021				0.001		
9/14/2021	<0.0005	0.0017				
9/15/2021					0.014	0.015
9/16/2021			0.00028 (J)			
1/20/2022	<0.0005					
1/21/2022			0.00039 (J)			
1/25/2022		0.0021				
1/26/2022					0.018	0.017
1/27/2022				0.0019		
9/12/2022					0.017	0.017
9/13/2022	0.00013 (J)		0.00044 (J)			
9/16/2022		0.002		0.0013		
Mean	0.000155	0.001614	0.0004071	0.001872	0.0176	0.0147
Std. Dev.	8.448E-05	0.0003485	0.0001421	0.00159	0.002881	0.003582
Upper Lim.	0.0001381	0.002028	0.0005687	0.003921	0.02243	0.017
Lower Lim.	5.882E-05	0.0012	0.0002575	0.0003565	0.01277	0.0069

# Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-97
2/17/2020	<0.0005
2/27/2020	0.0019 (J)
3/9/2021	0.0019
9/15/2021	0.0016
1/26/2022	0.0017
9/13/2022	0.0017
Mean	0.001508
Std. Dev.	0.000628
Upper Lim.	0.001898
Lower Lim.	0.0005068

# Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 11/22/2022 10:02 AM 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					
9/13/2022					<0.0005	
9/14/2022						0.00024 (J)
9/15/2022	0.00047 (J)	<0.0005	0.00017 (J)	<0.0005		
Mean	0.0009556	0.0004106	0.0003878	0.000455	0.0004371	0.0002935
Std. Dev.	0.0003012	0.0001601	0.0001897	0.0001249	0.0002236	8.616E-05
Upper Lim.	0.001152	0.0005	0.000327	0.0005	0.001	0.00033
Lower Lim.	0.0007597	0.00016	0.0002145	0.0002	0.00013	0.00023



# Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 11/22/2022 10:02 AM 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)					
9/14/2022	0.00032 (J)					
9/15/2022			0.0021	0.00029 (J)		
9/16/2022					0.00065	
9/20/2022		<0.0005				0.00017 (J)
Mean	0.0004141	0.0003824	0.002035	0.00058	0.0005788	0.0002788
Std. Dev.	0.0001576	0.0002229	0.0004076	0.0002051	0.0001724	0.0002044
Upper Lim.	0.00041	0.0005	0.002291	0.0006131	0.0006868	0.0003
Lower Lim.	0.00034	0.00014	0.00178	0.0003396	0.0004708	0.00018

# Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 11/22/2022 10:02 AM 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
9/13/2022		0.00069	0.0011	0.0026		
9/14/2022					0.00087	
9/15/2022						0.0011
9/19/2022	0.00091					

# Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8
Mean	0.0007475	0.0007894	0.001688	0.003435	0.0006625	0.002131
Std. Dev.	0.0001631	0.0005327	0.0006642	0.001595	0.0002669	0.0004799
Upper Lim.	0.0008536	0.001003	0.002104	0.0036	0.0008361	0.002443
Lower Lim.	0.0006414	0.0004734	0.001272	0.0026	0.0004889	0.001819

# Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-9	B-100	B-101D	B-102D	B-106D	B-115D
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)				
9/22/2020	0.00059 (J)					
9/25/2020		0.00027 (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					
3/4/2021				0.00081	0.00021 (J)	
3/5/2021			<0.0005			
3/8/2021		0.00027 (J)				
4/14/2021						0.00041 (J)
9/10/2021	0.00053			0.00083		
9/13/2021		0.00029 (J)	<0.0005		0.00024 (J)	
9/14/2021						0.00035 (J)
1/20/2022						0.00029 (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		
9/8/2022		0.00027 (J)				
9/14/2022						0.00018 (J)
9/15/2022				0.00091		
9/16/2022			<0.0005		<0.0005	
9/19/2022	0.00076					
Mean	0.0006024	0.00038	0.000422	0.0008217	0.000254	0.0003075
Std. Dev.	0.0001347	0.0001628	0.0001744	8.864E-05	0.0001445	9.811E-05
Upper Lim.	0.0006783	0.00059	0.0005	0.0009434	0.0002669	0.0005302
Lower Lim.	0.000519	0.00027	0.00011	0.0006999	0.0001181	8.476E-05

# Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-56	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		0.00029 (J)		0.00058 (J)		
8/19/2020						0.00077 (J)
9/25/2020					0.00026 (J)	
9/28/2020		0.00024 (J)		0.00066 (J)		0.00074 (J)
3/3/2021		0.00026 (J)				
3/4/2021					0.00032 (J)	
3/9/2021						0.00075 (J)
4/15/2021	0.001					
9/13/2021		0.00028 (J)				
9/14/2021	0.0011		0.00025 (J)	0.0007		
9/15/2021						0.00088
9/16/2021					0.0003 (J)	
1/20/2022	0.00098		<0.0005			
1/21/2022					0.0003 (J)	
1/25/2022				0.00072		
1/26/2022						0.00079
1/27/2022		0.00025 (J)				
9/12/2022						0.00084
9/13/2022					0.00031 (J)	
9/14/2022			0.00018 (J)			
9/16/2022		0.0003 (J)		0.00073		
9/19/2022	0.0012					
Mean	0.00107	0.00027	0.000345	0.0005971	0.0003243	0.000795
Std. Dev.	0.0001013	2.366E-05	0.0001734	0.0001491	4.995E-05	5.468E-05
Upper Lim.	0.0013	0.0003025	0.0005	0.0007742	0.0003836	0.0008701
Lower Lim.	0.00084	0.0002375	0.00014	0.0004201	0.000265	0.0007199

# Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/22/2022 10:02 AM 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)					
9/13/2022					<0.005	
9/14/2022						0.0023 (J)
9/15/2022	<0.005	<0.005	<0.005	<0.005		
Mean	0.002412	0.003899	0.004552	0.003931	0.004491	0.002994
Std. Dev.	0.002073	0.001969	0.001305	0.001914	0.00225	0.0008295
Upper Lim.	0.005	0.005	0.005	0.005	0.01	0.0033
Lower Lim.	0.00078	0.00061	0.00099	0.00074	0.0048	0.0024

# Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/22/2022 10:02 AM 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	<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)					
9/14/2022	0.0024 (J)					
9/15/2022			0.0014 (J)	<0.005		
9/16/2022					<0.005	
9/20/2022		<0.005				<0.005
Mean	0.003329	0.003422	0.003265	0.003526	0.004776	0.002518
Std. Dev.	0.001911	0.002203	0.002306	0.002084	0.0009216	0.002154
Upper Lim.	0.0031	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.0024	0.0005	0.0015	0.0006	0.0012	0.0005

# Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/22/2022 10:02 AM 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
9/13/2022		<0.005	<0.005	<0.005		
9/14/2022					<0.005	
9/15/2022						<0.005
9/19/2022	<0.005					



# Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8
Mean	0.004719	0.003308	0.004747	0.004476	0.004716	0.003592
Std. Dev.	0.001125	0.002116	0.001043	0.001479	0.001137	0.001943
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.0005	0.0008	0.0007	0.0007	0.00045	0.00086

# Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/22/2022 10:02 AM 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)
9/8/2022		<0.005				
9/13/2022				<0.005		
9/16/2022			<0.005			<0.005
9/19/2022	<0.005					
9/20/2022					<0.005	
Mean	0.003635	0.003585	0.00428	0.00435	0.004122	0.003065
Std. Dev.	0.002069	0.002195	0.00161	0.001592	0.001963	0.00214
Upper Lim.	0.0057	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.00061	0.00057	0.0014	0.0011	0.00061	0.00059

# Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/22/2022 10:02 AM 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
9/8/2022	<0.005					
9/13/2022			<0.005		0.0022 (J)	
9/14/2022		<0.005				
9/16/2022				<0.005		<0.005
Mean	0.004553	0.004273	0.003057	0.004443	0.003614	0.003158
Std. Dev.	0.00134	0.00178	0.002123	0.001474	0.001406	0.002036
Upper Lim.	0.005	0.005	0.005	0.005	0.005285	0.005
Lower Lim.	0.00098	0.00064	0.00068	0.0011	0.001944	0.00085

# Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	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)
9/12/2022	<0.005
Mean	0.002888
Std. Dev.	0.00232
Upper Lim.	0.005
Lower Lim.	0.00057

# Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/22/2022 10:02 AM 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					
9/13/2022					0.0016 (J)	
9/14/2022						0.016
9/15/2022	0.055	0.001 (J)	0.025	<0.005		
Mean	0.1441	0.001452	0.009611	0.002111	0.003406	0.02246
Std. Dev.	0.05294	0.0008668	0.01017	0.0008361	0.005607	0.006302
Upper Lim.	0.193	0.0025	0.018	0.0025	0.0025	0.02641
Lower Lim.	0.076	0.00065	0.0025	0.0005	0.0016	0.01852

# Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/22/2022 10:02 AM 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					
9/14/2022	0.052					
9/15/2022			0.75	0.0081		
9/16/2022					0.0098	
9/20/2022		0.0028 (J)				0.00053 (J)
Mean	0.05148	0.01594	0.5919	0.008529	0.008547	0.00168
Std. Dev.	0.002882	0.01179	0.1635	0.002021	0.002138	0.001338
Upper Lim.	0.05329	0.02169	0.6845	0.009637	0.009817	0.0025
Lower Lim.	0.04968	0.007709	0.4878	0.008194	0.007638	0.00043

# Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/22/2022 10:02 AM 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
9/13/2022		0.0069	0.21	0.31		
9/14/2022					0.027	
9/15/2022						0.0046 (J)
9/19/2022	0.0018 (J)					

# Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8
Mean	0.002	0.02798	0.3083	0.4394	0.0277	0.05919
Std. Dev.	0.0008438	0.02053	0.09696	0.08465	0.01036	0.03425
Upper Lim.	0.0021	0.03784	0.369	0.4925	0.04	0.08147
Lower Lim.	0.0015	0.01411	0.2475	0.3864	0.0209	0.0369



# Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-9	B-100	B-101D	B-102D	B-104D	B-106D
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					0.17	
12/17/2020				0.014		0.00087 (J)
1/11/2021				0.015		
1/12/2021			0.0034 (J)		0.19	
3/2/2021	0.18					
3/4/2021				0.014	0.19	0.0007 (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)
9/14/2021					0.1	
1/21/2022		0.034				
1/24/2022					0.1	
1/25/2022						<0.005
1/26/2022	0.22		0.0028 (J)			
1/27/2022				0.014		
9/8/2022		0.028				
9/13/2022					0.14	
9/15/2022				0.012		
9/16/2022			0.0035 (J)			<0.005
9/19/2022	0.25					
Mean	0.1797	0.05125	0.003	0.01367	0.1483	0.001426
Std. Dev.	0.04503	0.02684	0.0004848	0.001033	0.04167	0.0009865
Upper Lim.	0.208	0.087	0.003812	0.01509	0.2056	0.0009444
Lower Lim.	0.1515	0.028	0.002188	0.01225	0.09109	0.0005169

# Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-107D	B-108D	B-111D	B-115D	B-120D	B-56
8/17/2020						0.042
9/28/2020						0.042
12/9/2020	0.0017 (J)	0.0048 (J)	0.00076 (J)			
1/12/2021			0.0007 (J)			
3/3/2021						0.05
3/4/2021	0.0012 (J)	0.0017 (J)				
3/5/2021			0.00052 (J)			
4/14/2021				0.3		
4/15/2021					0.017	
9/13/2021	0.00083 (J)					0.047
9/14/2021		0.0017 (J)	<0.005	0.28	0.0055	
1/20/2022				0.24	0.0045 (J)	
1/24/2022	0.00088 (J)	0.00061 (J)	0.00041 (J)			
1/27/2022						0.052
9/14/2022	0.00061 (J)		<0.005	0.23		
9/15/2022		0.001 (J)				
9/16/2022						0.051
9/19/2022					0.0027 (J)	
Mean	0.001044	0.001962	0.001232	0.2625	0.007425	0.04733
Std. Dev.	0.000423	0.001654	0.0009904	0.03304	0.006488	0.004457
Upper Lim.	0.001753	0.004907	0.0008129	0.3375	0.02518	0.05346
Lower Lim.	0.0003352	0.0001737	0.0004143	0.1875	9.622E-06	0.04121

# Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/22/2022 10:02 AM 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		0.053				
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)		
9/23/2019					0.0038 (J)	
10/21/2019	0.00031 (J)		0.0074		0.0089	0.018
10/22/2019		0.046				
10/24/2019				0.0021 (J)		
8/13/2020	<0.005			0.0011 (J)		
8/14/2020						0.021
8/17/2020					0.0028 (J)	
9/24/2020	<0.005			0.0004 (J)		
9/25/2020						0.0073
9/28/2020					0.0053	
3/4/2021				0.0017 (J)		0.0099
3/12/2021	<0.005	0.046	0.01		0.0021 (J)	
9/9/2021	<0.005					
9/14/2021		0.037	0.012	<0.005	0.0015 (J)	
9/16/2021						0.011
1/20/2022	<0.005	0.039		<0.005		
1/21/2022						0.011
1/25/2022			0.013		0.0039 (J)	
9/8/2022	<0.005					
9/9/2022	<0.005					
9/13/2022				<0.005 (D)		0.012
9/14/2022		0.0465 (D)				
9/16/2022			0.012 (D)		0.00175 (JD)	
Mean	0.002061	0.04436	0.008986	0.001987	0.003756	0.01289
Std. Dev.	0.0009255	0.005313	0.003847	0.0008806	0.002439	0.004831
Upper Lim.	0.0025	0.05067	0.01356	0.002648	0.006341	0.01862
Lower Lim.	0.00031	0.03805	0.004416	0.0007123	0.001171	0.007148

# Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-88	B-93	B-98
11/22/2019	0.018 (J)		
12/19/2019		0.066	
2/17/2020			<0.005
8/17/2020	0.0031 (J)		
8/19/2020		0.068	
9/25/2020	0.0015 (J)		
9/28/2020		0.064	
3/5/2021	0.022		
3/9/2021		0.061	
3/15/2021			<0.005
9/13/2021	0.0018 (J)		
9/15/2021		0.062	0.0048 (J)
1/26/2022		0.064	<0.005
1/27/2022	0.0038 (J)		
9/12/2022		0.057	
9/13/2022			0.00063 (J)
9/16/2022	0.00135 (JD)		
Mean	0.007364	0.06314	0.002586
Std. Dev.	0.008753	0.003579	0.001479
Upper Lim.	0.01587	0.06739	0.0048
Lower Lim.	0.001019	0.05889	0.00063

# Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/22/2022 10:02 AM 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 11/22/2022 10:02 AM 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 11/22/2022 10:02 AM 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 11/22/2022 10:02 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	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 11/22/2022 10:02 AM 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	0.919 (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)					
8/17/2020			1.4 (U)			
9/22/2020		1.15 (U)				
9/23/2020	0.8 (U)					
9/25/2020			0.799 (U)			
12/9/2020						15.2
12/17/2020					1.22 (U)	
1/11/2021					0.635 (U)	
1/12/2021				1.91		17
3/2/2021	0.751 (U)	1.29 (U)				
3/4/2021					0.789 (U)	14.5
3/5/2021				2.17		
3/8/2021			0.168 (U)			
9/10/2021		1.28			1.74	
9/13/2021	0.916 (U)		0.774 (U)	1.8		
9/14/2021						9.6
1/21/2022			0.769 (U)			
1/24/2022						11.9
1/25/2022	0.356 (U)					
1/26/2022		0.789 (U)		1.21		
1/27/2022					0.628 (U)	
9/8/2022			0.643 (U)			
Mean	0.6412	1.171	0.7588	1.773	1.002	13.64
Std. Dev.	0.2687	0.3608	0.3938	0.4058	0.4775	2.907
Upper Lim.	0.816	1.405	1.3	2.694	1.803	18.51
Lower Lim.	0.4664	0.9357	0.2178	0.8511	0.2022	8.768

# Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/22/2022 10:02 AM 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						1.15 (U)
9/28/2020						1.39
12/9/2020		1.49	1.31 (U)		12.3	
12/17/2020	0.952 (U)					
1/12/2021					9.63	
1/13/2021				11.8		
3/3/2021						1.01 (U)
3/4/2021	0.681 (U)	2.14	2.02			
3/5/2021					9.05	
3/8/2021				12.1		
9/10/2021				9.45		
9/13/2021	0.625 (U)	0.813 (U)				0.854 (U)
9/14/2021			0.917 (U)		4.39	
1/20/2022				16.2		
1/24/2022		1.14 (U)	0.812 (U)		5.68	
1/25/2022	0.454 (U)					
1/27/2022						0.831 (U)
Mean	0.678	1.396	1.265	12.39	8.21	1.047
Std. Dev.	0.2066	0.568	0.5472	2.804	3.18	0.231
Upper Lim.	1.147	2.685	2.507	18.75	13.54	1.434
Lower Lim.	0.2089	0.1062	0.02236	6.021	2.882	0.6598

# Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/22/2022 10:02 AM 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		2.14 (U)				
1/30/2019	1.97 (U)					
10/21/2019	1.82			0.63 (U)	0.792 (U)	
10/22/2019		1.28 (U)				
10/24/2019			1.87			
8/13/2020	1.63		2.17			
8/14/2020					0.95 (U)	
8/17/2020				0.662 (U)		2.47
9/24/2020	1.28 (U)		0.761 (U)			
9/25/2020					0.0359 (U)	0.925 (U)
9/28/2020				0.747 (U)		
3/4/2021			2.16		1.15 (U)	
3/5/2021						2.84
3/12/2021	1.18 (U)					
9/9/2021	1.7					
9/13/2021						0.771 (U)
9/14/2021		1.68	0.617 (U)	1.03 (U)		
9/16/2021					0.442 (U)	
1/20/2022	1.71	0.846 (U)	0.92			
1/21/2022					0.549 (U)	
1/25/2022				0.33 (U)		
1/27/2022						1.18
9/9/2022	1.96					
Mean	1.656	1.487	1.416	0.6798	0.6532	1.637
Std. Dev.	0.2907	0.553	0.7269	0.2512	0.3977	0.9496
Upper Lim.	1.964	2.742	2.525	1.101	1.199	3.228
Lower Lim.	1.348	0.231	0.5185	0.2589	0.1069	0.04599

# Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-93
8/19/2020	1.19 (U)
9/28/2020	1.54
3/9/2021	0.786 (U)
9/15/2021	1.84
1/26/2022	0.758 (U)
Mean	1.223
Std. Dev.	0.4716
Upper Lim.	2.013
Lower Lim.	0.4326

# Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 11/22/2022 10:02 AM 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					
9/13/2022					0.059 (J)	0.065 (J)
9/15/2022	0.84	0.064 (J)	0.078 (J)	0.095 (J)		
Mean	1.573	0.08059	0.1506	0.1478	0.08517	0.1028
Std. Dev.	0.4167	0.02524	0.1381	0.1056	0.02588	0.04206
Upper Lim.	1.825	0.1	0.2	0.1896	0.1	0.11
Lower Lim.	1.321	0.052	0.078	0.08406	0.059	0.079

# Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 11/22/2022 10:02 AM 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				
9/14/2022	0.1	0.18				
9/15/2022				0.69	0.087 (J)	
9/16/2022						0.068 (J)
9/20/2022			0.076 (J)			
Mean	0.1924	0.3489	0.1368	0.7106	0.1055	0.1147
Std. Dev.	0.1496	0.3011	0.1501	0.4226	0.06279	0.06261

# Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22
Upper Lim.	0.31	0.449	0.28	0.9663	0.14	0.12
Lower Lim.	0.084	0.1721	0.053	0.4549	0.079	0.09

# Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 11/22/2022 10:02 AM 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
9/13/2022			<0.1	0.47	0.43	



# Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
9/14/2022						0.27
9/19/2022		0.061 (J)				
9/20/2022	0.11					
Mean	0.1763	0.1302	0.09333	0.8006	0.8572	0.5271
Std. Dev.	0.1487	0.1679	0.02058	0.4638	0.4371	0.4418
Upper Lim.	0.2073	0.17	0.1	1.081	1.076	0.6408
Lower Lim.	0.0939	0.082	0.06	0.52	0.5784	0.2247

# Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 11/22/2022 10:02 AM 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	0.39	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)					
8/17/2020			<0.1			
9/22/2020		0.99				
9/23/2020	<0.1					
9/25/2020			<0.1			
12/9/2020						0.33
12/17/2020					0.079 (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
3/5/2021				0.053 (J)		
3/8/2021			<0.1			
9/10/2021		2			0.083 (J)	
9/13/2021	0.069 (J)		<0.1	0.051 (J)		
9/14/2021						0.5
1/21/2022			<0.1			
1/24/2022						0.28
1/25/2022	<0.1					
1/26/2022		1.2		<0.1		
1/27/2022					0.062 (J)	
9/8/2022			0.072 (J)			
9/13/2022						0.35
9/15/2022	0.077 (J)				0.11	
9/16/2022				0.099 (J)		
9/19/2022		0.8				
Mean	0.2635	1.158	0.09533	0.071	0.08683	0.375
Std. Dev.	0.2284	0.3195	0.01143	0.02603	0.0193	0.07817
Upper Lim.	0.3171	1.352	0.1	0.1	0.1133	0.4824
Lower Lim.	0.09257	0.965	0.072	0.051	0.06032	0.2676

# Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
12/9/2020		<0.1	<0.1		0.33	
12/17/2020	0.052 (J)					
1/12/2021					0.32	
1/13/2021				0.17		
3/4/2021	0.055 (J)	<0.1	<0.1			
3/5/2021					0.51	
3/8/2021				0.14		
4/14/2021						0.99
9/10/2021				0.15		
9/13/2021	0.052 (J)	<0.1				
9/14/2021			<0.1		0.57	1
1/20/2022				0.11		0.59
1/24/2022		<0.1	<0.1		0.38	
1/25/2022	<0.1					
9/14/2022		0.053 (J)			0.38	0.63
9/15/2022			0.061 (J)			
9/16/2022	0.08 (J)					
9/20/2022				0.15		
Mean	0.0678	0.0906	0.0922	0.144	0.415	0.8025
Std. Dev.	0.0215	0.02102	0.01744	0.02191	0.1017	0.2229
Upper Lim.	0.07945	0.1	0.1	0.1807	0.5548	1.484
Lower Lim.	0.04005	0.053	0.061	0.1073	0.2752	0.4086

# Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-56	B-62	B-63	B-66	B-77
1/28/2019				0.45		
1/30/2019			0.43		0.51	
10/21/2019			0.23 (J)		0.3 (J)	
10/22/2019				0.2 (J)		
10/24/2019						0.096 (J)
8/13/2020			0.11			<0.1
8/17/2020		0.19				
9/24/2020			0.093 (J)			<0.1
9/28/2020		0.098 (J)				
3/3/2021		0.34				
3/4/2021						<0.1
3/12/2021			0.11			
4/15/2021	<0.1					
9/9/2021			0.14			
9/13/2021		0.2				
9/14/2021	<0.1			0.16	0.22	0.078 (J)
1/20/2022	<0.1		0.099 (J)	0.12		<0.1
1/25/2022					0.12	
1/27/2022		0.21				
9/8/2022			0.13			
9/13/2022						0.08 (J)
9/14/2022				0.14		
9/16/2022		0.22			0.18	
9/19/2022	0.057 (J)					
Mean	0.08925	0.2097	0.1678	0.214	0.266	0.09343
Std. Dev.	0.0215	0.07752	0.1145	0.1352	0.1513	0.009981
Upper Lim.	0.1	0.3162	0.43	0.4452	0.5195	0.1
Lower Lim.	0.057	0.1032	0.093	0.06354	0.01253	0.078

# Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-82	B-83	B-88	B-93
10/21/2019	0.2 (J)	0.13 (J)		
8/14/2020		0.05 (J)		
8/17/2020	<0.1		<0.1	
8/19/2020				0.32
9/25/2020		<0.1	<0.1	
9/28/2020	<0.1			0.3
3/4/2021		0.071 (J)		
3/5/2021			<0.1	
3/9/2021				0.34
9/13/2021			<0.1	
9/14/2021	0.052 (J)			
9/15/2021				0.34
9/16/2021		0.066 (J)		
1/21/2022		<0.1		
1/25/2022	<0.1			
1/26/2022				0.41
1/27/2022			<0.1	
9/12/2022				0.4
9/13/2022		0.081 (J)		
9/16/2022	0.079 (J)		0.054 (J)	
Mean	0.1052	0.08543	0.09233	0.3517
Std. Dev.	0.05017	0.02668	0.01878	0.04401
Upper Lim.	0.1527	0.1049	0.1	0.4121
Lower Lim.	0.03333	0.04706	0.054	0.2912

# Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/22/2022 10:02 AM 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					
9/13/2022					<0.001	<0.001
9/15/2022	<0.001	<0.001	<0.001	<0.001		
Mean	0.0006739	0.0007187	0.0009006	0.0008936	0.0008366	0.0007495
Std. Dev.	0.0004362	0.0004314	0.0002894	0.0002913	0.0003639	0.0004302
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 11/22/2022 10:02 AM 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				
9/14/2022	<0.001	<0.001				
9/15/2022				<0.001	<0.001	
9/20/2022			<0.001			<0.001
Mean	0.0006349	0.0007405	0.0005726	0.0007628	0.0006627	0.0009451
Std. Dev.	0.0004504	0.000417	0.0004676	0.0003566	0.0004214	0.0002265
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.001

# Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-23
Lower Lim.	0.0001	0.00016	9E-05	0.00044	0.00015	6.6E-05



# Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/22/2022 10:02 AM 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
9/13/2022		<0.001	<0.001	0.00093 (J)		
9/14/2022					<0.001	
9/15/2022						<0.001
9/19/2022	<0.001					

# Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8
Mean	0.0007793	0.0008365	0.001071	0.001588	0.0006486	0.0006739
Std. Dev.	0.0003958	0.001151	0.001035	0.001115	0.0006457	0.0004052
Upper Lim.	0.001	0.0004369	0.001	0.002	0.001	0.001
Lower Lim.	0.00012	0.0001603	0.0006	0.00095	6.3E-05	0.00011

# Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/22/2022 10:02 AM 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		
9/8/2022		<0.001				
9/13/2022					<0.001	
9/14/2022						<0.001
9/15/2022				<0.001		
9/16/2022			<0.001			
9/19/2022	<0.001					
Mean	0.0008588	0.0005797	0.000813	0.0005243	0.0008418	0.0008088
Std. Dev.	0.0003153	0.0004622	0.0004181	0.0005211	0.0003874	0.0004275
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.001
Lower Lim.	0.00028	8.8E-05	6.5E-05	3.7E-05	5.1E-05	4.4E-05

# Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-111D	B-115D	B-120D	B-56	B-63	B-82
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				0.00022 (J)		5.9E-05 (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)		
3/5/2021	<0.001					
4/14/2021		0.00032 (J)				
4/15/2021			0.00019 (J)			
9/13/2021				<0.001		
9/14/2021	<0.001	<0.001	<0.001		<0.001	<0.001
1/20/2022		<0.001	<0.001		<0.001	
1/24/2022	<0.001					
1/25/2022						<0.001
1/27/2022				<0.001		
9/14/2022	<0.001	<0.001			<0.001	
9/16/2022				<0.001		<0.001
9/19/2022			<0.001			
Mean	0.0006848	0.00083	0.0007975	0.0005685	0.0006867	0.0006184
Std. Dev.	0.0004883	0.00034	0.000405	0.0004749	0.0004855	0.0004768
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.001
Lower Lim.	5.1E-05	0.00032	0.00019	9.1E-05	4.7E-05	5.9E-05

# Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-83	B-88	B-93
10/21/2019	0.00012 (J)		
8/14/2020	0.00092 (J)		
8/17/2020		0.00081 (J)	
8/19/2020			0.00012 (J)
9/25/2020	6.5E-05 (J)	0.00035 (J)	
9/28/2020			0.00012 (J)
3/4/2021	0.00017 (J)		
3/5/2021		0.012	
3/9/2021			<0.001
9/13/2021		<0.001	
9/15/2021			<0.001
9/16/2021	<0.001		
1/21/2022	<0.001		
1/26/2022			<0.001
1/27/2022		0.0022	
9/12/2022			<0.001
9/13/2022	<0.001		
9/16/2022		<0.001	
Mean	0.0006107	0.002893	0.0007067
Std. Dev.	0.0004624	0.004503	0.0004544
Upper Lim.	0.001	0.006095	0.001
Lower Lim.	6.5E-05	0.0002108	0.00012

# Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/22/2022 10:02 AM 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)					
9/13/2022					0.0043 (J)	0.0057 (J)
9/15/2022	0.0053 (J)	0.0024 (J)	0.00088 (J)	0.004 (J)		
Mean	0.005375	0.003069	0.01034	0.00475	0.004671	0.006144
Std. Dev.	0.003986	0.003198	0.006786	0.004016	0.002882	0.0008469
Upper Lim.	0.006599	0.0028	0.015	0.004	0.0044	0.0064
Lower Lim.	0.002973	0.0019	0.0011	0.0029	0.0034	0.0057

# Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/22/2022 10:02 AM 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)				
9/14/2022	<0.03	0.0032 (J)				
9/15/2022				0.0096 (J)	0.0069 (J)	
9/16/2022						0.0033 (J)
9/20/2022			0.021 (J)			
Mean	0.01009	0.003894	0.04594	0.006924	0.006535	0.004653
Std. Dev.	0.006856	0.00287	0.0297	0.005464	0.002217	0.002705
Upper Lim.	0.015	0.0034	0.0807	0.012	0.0065	0.0046
Lower Lim.	0.0011	0.0031	0.023	0.0021	0.0057	0.0036

# Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/22/2022 10:02 AM 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)
9/13/2022			0.0091 (J)	0.05	0.099	
9/14/2022						0.0081 (J)
9/19/2022		0.0037 (J)				
9/20/2022	0.0051 (J)					



# Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
Mean	0.01075	0.003781	0.01098	0.06461	0.1151	0.006481
Std. Dev.	0.01733	0.003031	0.002158	0.01243	0.01511	0.002885
Upper Lim.	0.014	0.0037	0.01233	0.07239	0.1245	0.008091
Lower Lim.	0.0039	0.0025	0.009624	0.05682	0.1056	0.004567

# Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/22/2022 10:02 AM 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)	
9/8/2022			0.0023 (J)			
9/13/2022						0.04
9/15/2022	0.0039 (J)				0.013 (J)	
9/16/2022				0.011 (J)		
9/19/2022		0.023 (J)				
Mean	0.005725	0.02626	0.002167	0.01176	0.01317	0.038
Std. Dev.	0.002765	0.004292	0.0004719	0.001972	0.001169	0.001673
Upper Lim.	0.00675	0.02895	0.002815	0.01506	0.01477	0.0403
Lower Lim.	0.004185	0.02357	0.001518	0.008456	0.01156	0.0357

# Confidence Interval

Constituent: Lithium (mg/L)    Analysis Run 11/22/2022 10:02 AM    View: AP 234 Confidence Intervals  
 Plant McDonough    Client: Southern Company    Data: McDonough AP

	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
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)		
3/4/2021	0.0054 (J)	0.015 (J)	0.014 (J)			
3/5/2021					0.028 (J)	
3/8/2021				0.014 (J)		
4/14/2021						0.089
9/10/2021				0.013 (J)		
9/13/2021	0.0056 (J)	0.014 (J)				
9/14/2021			0.015 (J)		0.029 (J)	0.085
1/20/2022				0.014 (J)		0.081
1/24/2022		0.015 (J)	0.014 (J)		0.026 (J)	
1/25/2022	0.0055 (J)					
9/14/2022		0.015 (J)			0.02 (J)	0.082
9/15/2022			0.016 (J)			
9/16/2022	0.0054 (J)					
9/20/2022				0.013 (J)		
Mean	0.00534	0.0152	0.015	0.014	0.02417	0.08425
Std. Dev.	0.000313	0.001095	0.001	0.001225	0.003971	0.003594
Upper Lim.	0.005805	0.01704	0.01668	0.01605	0.02962	0.09241
Lower Lim.	0.004811	0.01336	0.01332	0.01195	0.01871	0.07609

# Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-56	B-62	B-63	B-66	B-77
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)
10/21/2019			0.0078 (J)		<0.03	
10/22/2019				0.0062 (J)		
10/24/2019						0.0036 (J)
8/13/2020			0.0087 (J)			0.0018 (J)
8/17/2020		0.0056 (J)				
9/24/2020			0.0084 (J)			0.00095 (J)
9/28/2020		0.005 (J)				
3/3/2021		0.0051 (J)				
3/4/2021						0.0011 (J)
3/12/2021			0.0087 (J)	0.0066 (J)		
4/15/2021	0.088					
9/9/2021			0.0094 (J)			
9/13/2021		0.0055 (J)				
9/14/2021	0.077			0.0064 (J)	<0.03	<0.03
1/20/2022	0.079		0.0092 (J)	0.0062 (J)		<0.03
1/25/2022					0.00073 (J)	
1/27/2022		0.0061 (J)				
9/8/2022			0.0085 (J)			
9/13/2022						0.0021 (JD)
9/14/2022				0.0072 (JD)		
9/16/2022		0.0057 (J)			<0.03	
9/19/2022	0.076					
Mean	0.08	0.0055	0.009278	0.007714	0.01262	0.005531
Std. Dev.	0.005477	0.000405	0.002213	0.003231	0.005826	0.005977
Upper Lim.	0.09244	0.006056	0.015	0.015	0.015	0.003715
Lower Lim.	0.06756	0.004944	0.0078	0.0062	0.00073	0.001092

# Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-82	B-83	B-88	B-93
9/23/2019	0.0039 (J)			
10/21/2019	0.0036 (J)	0.003 (J)		
8/14/2020		0.0045 (J)		
8/17/2020	0.0016 (J)		0.006 (J)	
8/19/2020				0.011 (J)
9/25/2020		0.0018 (J)	0.0016 (J)	
9/28/2020	0.001 (J)			0.011 (J)
3/4/2021		0.0024 (J)		
3/5/2021			0.029 (J)	
3/9/2021				0.012 (J)
9/13/2021			0.0017 (J)	
9/14/2021	0.001 (J)			
9/15/2021				0.011 (J)
9/16/2021		0.0021 (J)		
1/21/2022		0.0022 (J)		
1/25/2022	0.00082 (J)			
1/26/2022				0.013 (J)
1/27/2022			0.0066 (J)	
9/12/2022				0.013 (J)
9/13/2022		0.0027 (J)		
9/16/2022	0.00078 (J)		0.0021 (J)	
Mean	0.001814	0.002671	0.007833	0.01183
Std. Dev.	0.001352	0.0008976	0.0106	0.0009832
Upper Lim.	0.0039	0.003738	0.0202	0.013
Lower Lim.	0.00078	0.001605	0.0009269	0.011

# Confidence Interval

Constituent: Mercury (mg/L)    Analysis Run 11/22/2022 10:02 AM    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					
9/13/2022					<0.0002	<0.0002
9/15/2022	<0.0002	<0.0002	<0.0002	<0.0002		
Mean	0.0001701	0.0001744	0.0001592	0.000185	0.0001759	0.0001918
Std. Dev.	5.368E-05	5.537E-05	6.243E-05	4.115E-05	5.397E-05	3.395E-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 11/22/2022 10:02 AM 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				
9/14/2022	<0.0002	<0.0002				
9/15/2022				<0.0002	<0.0002	
9/16/2022						<0.0002
9/20/2022			<0.0002			
Mean	0.0001474	0.0001753	0.0002043	0.0001794	0.0001629	0.0001715
Std. Dev.	6.27E-05	5.58E-05	0.000122	4.589E-05	6.08E-05	5.465E-05
Upper Lim.	0.0002	0.0002	0.00064	0.0002	0.0002	0.0002
Lower Lim.	8.2E-05	9E-05	8.3E-05	9E-05	8E-05	0.00011

# Confidence Interval

Constituent: Mercury (mg/L)    Analysis Run 11/22/2022 10:02 AM    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
9/13/2022			<0.0002	<0.0002		



# Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-23	DGWC-4	DGWC-42	DGWC-48	DGWC-5	DGWC-8
9/14/2022					0.00022	
9/15/2022						<0.0002
9/19/2022		<0.0002				
9/20/2022	<0.0002					
Mean	0.0001871	0.0002064	0.0001906	0.0001918	0.0001996	0.0001557
Std. Dev.	5.382E-05	0.0001111	3.881E-05	3.395E-05	0.0001117	6.126E-05
Upper Lim.	0.0001899	0.00022	0.0002	0.0002	0.0002509	0.0002
Lower Lim.	0.0001266	0.00013	4E-05	6E-05	0.0001313	7.9E-05

# Confidence Interval

Constituent: Mercury (mg/L)    Analysis Run 11/22/2022 10:02 AM    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			
9/8/2022		<0.0002				
9/13/2022				<0.0002		
9/14/2022					<0.0002	
9/15/2022						<0.0002
9/16/2022			<0.0002			
9/19/2022	0.0002					
Mean	0.000186	0.000182	0.000188	0.0001798	0.000192	0.000188
Std. Dev.	8.263E-05	4.025E-05	2.683E-05	4.94E-05	1.789E-05	2.683E-05
Upper Lim.	0.0002	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 11/22/2022 10:02 AM    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	
9/12/2022					0.00016 (J)
9/14/2022	<0.0002				
9/16/2022		<0.0002	<0.0002	<0.0002	
Mean	0.0001823	0.0001933	0.0001871	0.0001683	0.0001847
Std. Dev.	4.327E-05	1.633E-05	3.402E-05	4.916E-05	6.049E-05
Upper Lim.	0.0002	0.0002	0.0002	0.0002	0.0002543
Lower Lim.	9.4E-05	0.00016	0.00011	0.0001	9.374E-05

# Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-13	DGWC-2	DGWC-23	DGWC-4	B-101D	B-102D
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)			
12/17/2020						<0.01
1/11/2021						<0.01
1/12/2021				0.0022 (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				<0.01		
9/9/2021	0.011	0.0023 (J)	0.01			
9/10/2021				0.0052 (J)		<0.01
9/13/2021				<0.01		
1/20/2022		0.0022 (J)	0.0073 (J)			
1/24/2022				0.0045 (J)		
1/25/2022	0.0093 (J)					
1/26/2022				<0.01		
1/27/2022						<0.01

# Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-13	DGWC-2	DGWC-23	DGWC-4	B-101D	B-102D
9/15/2022	0.0094 (J)					0.0015 (J)
9/16/2022					<0.01	
9/19/2022				0.0037 (J)		
9/20/2022		0.0021 (J)	0.0095 (J)			
Mean	0.01833	0.004747	0.008924	0.005769	0.00844	0.008583
Std. Dev.	0.009341	0.004019	0.003032	0.001774	0.003488	0.00347
Upper Lim.	0.02242	0.01	0.01082	0.006923	0.01	0.01
Lower Lim.	0.01192	0.0018	0.007024	0.004615	0.0022	0.0015

# Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-104D	B-109D	B-111D	B-120D	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	0.0012 (J)		0.0055 (J)			
1/12/2021	<0.01		0.0054 (J)			
1/13/2021		0.0022 (J)				
3/4/2021	<0.01					
3/5/2021			0.0067 (J)			<0.01
3/8/2021		0.0014 (J)				
4/15/2021				0.00089 (J)		
9/10/2021		0.0011 (J)				
9/13/2021						<0.01
9/14/2021	<0.01		0.013	<0.01	<0.01	
1/20/2022		0.0012 (J)		<0.01		
1/24/2022	0.00083 (J)		0.0052 (J)			
1/25/2022					<0.01	
1/27/2022						<0.01
9/13/2022	<0.01					
9/14/2022			0.0069 (J)			
9/16/2022					<0.01	<0.01
9/19/2022				<0.01		
9/20/2022		0.0014 (J)				
Mean	0.007005	0.00146	0.007117	0.007722	0.007217	0.007067
Std. Dev.	0.004641	0.0004336	0.002969	0.004555	0.004313	0.004544
Upper Lim.	0.01	0.002187	0.013	0.01	0.01	0.01
Lower Lim.	0.00083	0.0007334	0.0052	0.00089	0.0015	0.0012

# Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 11/22/2022 10:02 AM 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					
9/13/2022				<0.005	<0.005	
9/14/2022						0.0064
9/15/2022	0.02	<0.005	0.004 (J)			
Mean	0.03502	0.00405	0.004394	0.004118	0.005106	0.007771
Std. Dev.	0.02135	0.002157	0.002313	0.002217	0.00148	0.002266
Upper Lim.	0.04891	0.005	0.004355	0.01	0.01	0.008819
Lower Lim.	0.02113	0.0019	0.002125	0.0017	0.0018	0.006411

# Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 11/22/2022 10:02 AM 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)					
9/13/2022						0.0031 (J)
9/14/2022	0.0073					



# Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-19	DGWC-2	DGWC-20	DGWC-22	DGWC-4	DGWC-47
9/15/2022			0.062			
9/16/2022				<0.005		
9/19/2022					<0.005	
9/20/2022		0.0018 (J)				
Mean	0.007094	0.004871	0.05072	0.004806	0.004775	0.008335
Std. Dev.	0.002441	0.001733	0.0235	0.0008004	0.0009	0.00581
Upper Lim.	0.008624	0.0051	0.06544	0.005	0.005	0.01198
Lower Lim.	0.005564	0.0037	0.03599	0.0017	0.0014	0.004695

# Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 11/22/2022 10:02 AM 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
9/8/2022					<0.005	
9/13/2022	0.0019 (J)					
9/14/2022		0.019				
9/15/2022			<0.005			
9/16/2022						<0.005
9/19/2022				0.048		

# Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-48	DGWC-5	DGWC-8	DGWC-9	B-100	B-101D
Mean	0.005541	0.03004	0.004637	0.08498	0.004483	0.00462
Std. Dev.	0.003219	0.03995	0.002001	0.05747	0.001266	0.0008497
Upper Lim.	0.006509	0.03982	0.0069	0.121	0.005	0.005
Lower Lim.	0.002678	0.009533	0.0028	0.04897	0.0019	0.0031

# Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-104D	B-108D	B-111D	B-115D	B-120D	B-56
8/17/2020						0.011
9/28/2020						0.029
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)				
3/5/2021			0.0022 (J)			
4/14/2021				0.006		
4/15/2021					0.0016 (J)	
9/13/2021						0.011
9/14/2021	<0.005	<0.005	<0.005	0.0041 (J)	0.0022 (J)	
1/20/2022				0.0022 (J)	0.0021 (J)	
1/24/2022	<0.005	<0.005	<0.005			
1/27/2022						0.0066
9/13/2022	<0.005					
9/14/2022			<0.005	0.0045 (J)		
9/15/2022		<0.005				
9/16/2022						0.01
9/19/2022					0.0038 (J)	
Mean	0.004117	0.00432	0.004533	0.0042	0.002425	0.01343
Std. Dev.	0.001448	0.001521	0.001143	0.001564	0.0009535	0.00791
Upper Lim.	0.005	0.005	0.005	0.007751	0.00459	0.02364
Lower Lim.	0.0016	0.0016	0.0022	0.0006488	0.0002602	0.005489

# Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-77	B-82	B-83	B-88	B-93
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		<0.005		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			
9/15/2021					0.0076
9/16/2021			0.025		
1/20/2022	<0.005				
1/21/2022			0.027		
1/25/2022		0.002 (J)			
1/26/2022					0.0063
1/27/2022				<0.005	
9/12/2022					0.013
9/13/2022	<0.005		0.024		
9/16/2022		<0.005		0.002 (J)	
Mean	0.004587	0.003671	0.02031	0.0029	0.01513
Std. Dev.	0.001167	0.001664	0.006715	0.001235	0.01105
Upper Lim.	0.005	0.005	0.02829	0.002986	0.02992
Lower Lim.	0.0017	0.0016	0.01234	0.001427	0.003804

# Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 11/22/2022 10:02 AM 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		<0.005		0.0005 (J)		
9/2/2016					<0.005	<0.005
9/7/2016			<0.005			
12/6/2016	0.0004 (J)					
12/7/2016		<0.005		0.0005 (J)	0.0006 (J)	
12/8/2016			<0.005			<0.005
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	<0.005	<0.005				
2/28/2018			0.00015 (J)	0.00049 (J)	<0.005	<0.005
7/11/2018		<0.005	0.00017 (J)	0.0005 (J)	<0.005	
7/12/2018						<0.005
11/6/2018	<0.001 (J)					
11/7/2018		<0.005	<0.005	<0.001 (J)	<0.001 (J)	<0.005
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)			<0.005
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)	<0.005		0.00059 (J)		
8/13/2020					0.0016 (J)	
8/14/2020			0.00019 (J)			<0.005
9/22/2020		<0.005		0.0005 (J)	0.00055 (J)	
9/24/2020	0.00034 (J)		0.00018 (J)			<0.005
3/2/2021				0.00056 (J)	0.0014 (J)	
3/3/2021		<0.005	0.00017 (J)			<0.005
3/4/2021	0.00042 (J)					
9/9/2021		<0.005		0.00056 (J)		
9/10/2021	0.00027 (J)				0.00052 (J)	<0.005
9/13/2021			<0.005			
1/20/2022						<0.005
1/21/2022					<0.005	
1/24/2022			<0.005			
1/25/2022		<0.005		0.00057 (J)		
1/26/2022	0.00033 (J)					
9/14/2022			<0.005	0.00056 (J)		
9/15/2022	<0.005	<0.005			0.001 (J)	
9/16/2022						<0.005
Mean	0.001012	0.003093	0.001881	0.0005465	0.00189	0.003549
Std. Dev.	0.001565	0.00246	0.002375	0.0001297	0.001838	0.002317
Upper Lim.	0.001	0.005	0.005	0.00057	0.005	0.005

# Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-10	DGWC-12	DGWC-17	DGWC-19	DGWC-20	DGWC-22
Lower Lim.	0.00034	9E-05	0.00017	0.00049	0.00055	7E-05

# Confidence Interval

Constituent: Thallium (mg/L)    Analysis Run 11/22/2022 10:02 AM    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			0.0002 (J)	<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	<0.005				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	<0.005					
6/15/2017	<0.005					
7/11/2017	<0.005				<0.005	0.0001 (J)
7/13/2017		9E-05 (J)	0.0002 (J)	8E-05 (J)		
10/24/2017	<0.005					0.0003 (J)
10/25/2017		9E-05 (J)			<0.005	
10/26/2017			0.0003 (J)	9E-05 (J)		
2/27/2018	<0.005				<0.005	0.00033 (J)
2/28/2018		<0.005				
3/1/2018			0.00032 (J)			
3/2/2018				<0.005		
7/11/2018		<0.005				
7/12/2018			0.00031 (J)	<0.005		
11/6/2018	<0.005				<0.005	<0.001 (J)
11/7/2018		<0.005	<0.001 (J)	<0.005		
8/27/2019	<0.005				<0.005	
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		<0.005	0.00025 (J)			
10/18/2019				<0.005		
3/2/2020	<0.005				6.2E-05 (J)	
3/3/2020						0.00023 (J)
3/4/2020		<0.005	0.00021 (J)	6.8E-05 (J)		
8/12/2020	<0.005		0.00018 (J)		<0.005	0.00023 (J)
8/13/2020		<0.005		<0.005		
9/22/2020	<0.005	<0.005			<0.005	
9/23/2020			0.00026 (J)	<0.005		0.0002 (J)
3/1/2021	<0.005					
3/2/2021					<0.005	0.00019 (J)
3/3/2021		<0.005	0.00023 (J)	<0.005		
9/10/2021	<0.005		0.00036 (J)	<0.005	<0.005	
9/13/2021		<0.005				0.00019 (J)
1/20/2022		<0.005				
1/21/2022			0.00028 (J)			
1/24/2022	<0.005			<0.005	<0.005	
1/25/2022						0.00019 (J)
9/13/2022		<0.005	0.00021 (J)	<0.005		
9/14/2022					<0.005	
9/15/2022						<0.005
9/19/2022	<0.005					



# Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8
Mean	0.004692	0.003843	0.0005741	0.003553	0.004084	0.001164
Std. Dev.	0.001232	0.002149	0.001156	0.00231	0.00197	0.001913
Upper Lim.	0.005	0.005	0.00032	0.005	0.005	0.001
Lower Lim.	7.3E-05	9E-05	0.0002	8E-05	0.0002	0.00019

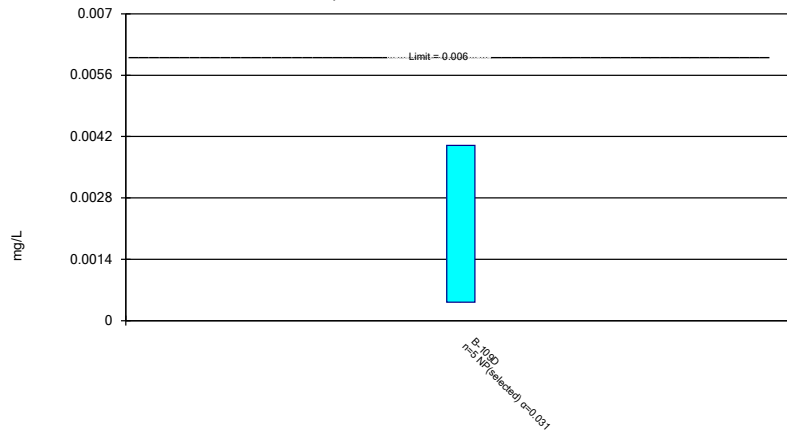
# Confidence Interval

Constituent: Thallium (mg/L)    Analysis Run 11/22/2022 10:02 AM    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	<0.005				
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	<0.005				
11/6/2018	<0.005				
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	<0.005				
8/14/2020				<0.005	
8/17/2020		0.00016 (J)	<0.005		<0.005
9/22/2020	0.00043 (J)				
9/25/2020				<0.005	<0.005
9/28/2020		0.00023 (J)	<0.005		
3/2/2021	<0.005				
3/3/2021		0.00026 (J)			
3/4/2021				<0.005	
3/5/2021					0.0002 (J)
9/10/2021	0.0004 (J)				
9/13/2021		0.00024 (J)			<0.005
9/14/2021			<0.005		
9/16/2021				<0.005	
1/21/2022				<0.005	
1/25/2022			<0.005		
1/26/2022	<0.005				
1/27/2022		0.00032 (J)			<0.005
9/13/2022				<0.005	
9/16/2022		0.00024 (J)	<0.005		<0.005
9/19/2022	<0.005				
Mean	0.002385	0.0002417	0.003601	0.004296	0.0042
Std. Dev.	0.002258	5.154E-05	0.002389	0.001863	0.00196
Upper Lim.	0.005	0.0003125	0.005	0.005	0.005
Lower Lim.	0.00044	0.0001709	9.9E-05	7.2E-05	0.0002

### Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

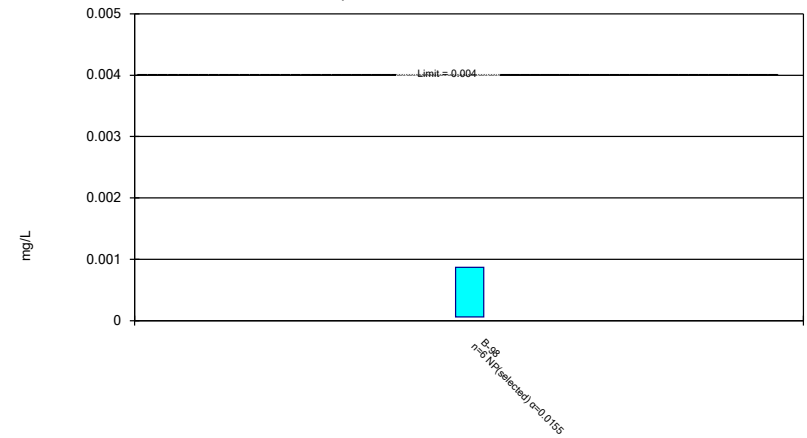


Normality testing disabled.

Constituent: Antimony Analysis Run 11/22/2022 9:57 AM View: AP 234 Confidence Intervals Nonparametr  
Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

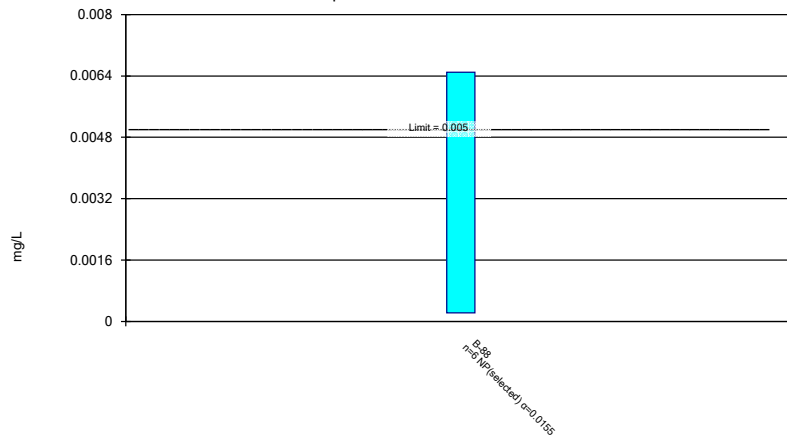


Normality testing disabled.

Constituent: Beryllium Analysis Run 11/22/2022 9:57 AM View: AP 234 Confidence Intervals Nonparametr  
Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

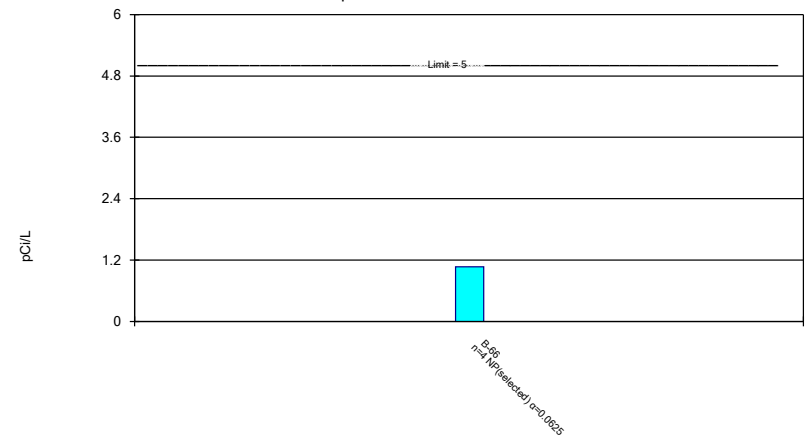


Normality testing disabled.

Constituent: Cadmium Analysis Run 11/22/2022 9:57 AM View: AP 234 Confidence Intervals Nonparametr  
Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

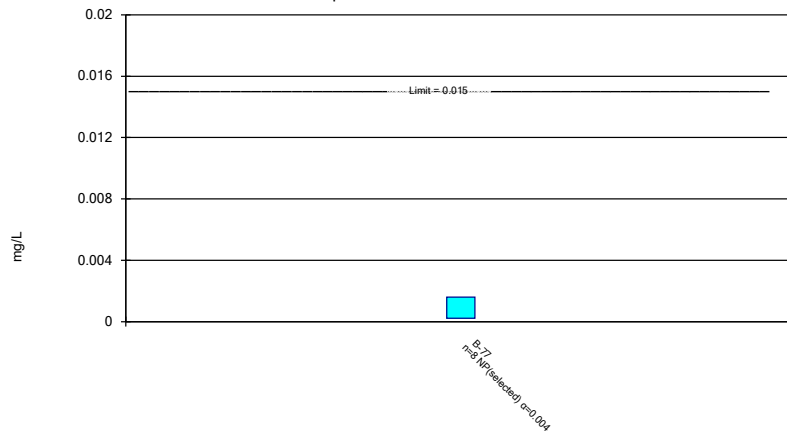


Normality testing disabled.

Constituent: Combined Radium 226 + 228 Analysis Run 11/22/2022 9:57 AM 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: Lead Analysis Run 11/22/2022 9:58 AM View: AP 234 Confidence Intervals Nonparametric  
Plant McDonough Client: Southern Company Data: McDonough AP

# Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals Nonparametric  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-109D
1/13/2021	0.00042 (J)
3/8/2021	0.00084 (J)
9/10/2021	0.004
1/20/2022	<0.003
9/20/2022	<0.003
Mean	0.002252
Std. Dev.	0.001543
Upper Lim.	0.004
Lower Lim.	0.00042

# Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals Nonparametric  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-98
2/17/2020	<0.0005
2/27/2020	<0.0005
3/15/2021	<0.0005
9/15/2021	0.00087
1/26/2022	6.8E-05 (J)
9/13/2022	6.2E-05 (J)
Mean	0.0004167
Std. Dev.	0.0003078
Upper Lim.	0.00087
Lower Lim.	6.2E-05

# Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals Nonparametric  
Plant McDonough Client: Southern Company Data: McDonough AP

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	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
9/16/2022	0.0019
Mean	0.002553
Std. Dev.	0.002222
Upper Lim.	0.0065
Lower Lim.	0.00022

# Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals Nonparametric  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-66
1/30/2019	0.975 (U)
10/21/2019	1.07 (U)
9/14/2021	0.421 (U)
1/25/2022	0 (U)
Mean	0.6165
Std. Dev.	0.5008
Upper Lim.	1.07
Lower Lim.	0



# Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals Nonparametric  
Plant McDonough Client: Southern Company Data: McDonough AP

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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
9/13/2022	<0.001
Mean	0.0008025
Std. Dev.	0.0004838
Upper Lim.	0.0016
Lower Lim.	0.00021

FIGURE I.

# Appendix IV Trend Tests - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/22/2022, 10:13 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Beryllium (mg/L)	DGWA-70A (bg)	-0.0005528	-75	-63	Yes	17	47.06	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-48	-0.0003618	-75	-63	Yes	17	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWA-53 (bg)	-0.004341	-86	-63	Yes	17	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-10	-0.02391	-81	-58	Yes	16	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-47	-0.04254	-94	-63	Yes	17	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-48	-0.04236	-118	-63	Yes	17	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-8	-0.01359	-84	-58	Yes	16	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-9	0.02203	94	63	Yes	17	0	n/a	n/a	0.01	NP
Combined Radium 226 + 228 (pCi/L)	DGWA-53 (bg)	-0.5606	-74	-63	Yes	17	0	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWC-47	-0.005519	-84	-63	Yes	17	0	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWC-48	-0.006296	-90	-63	Yes	17	0	n/a	n/a	0.01	NP

# Appendix IV Trend Tests - All Results

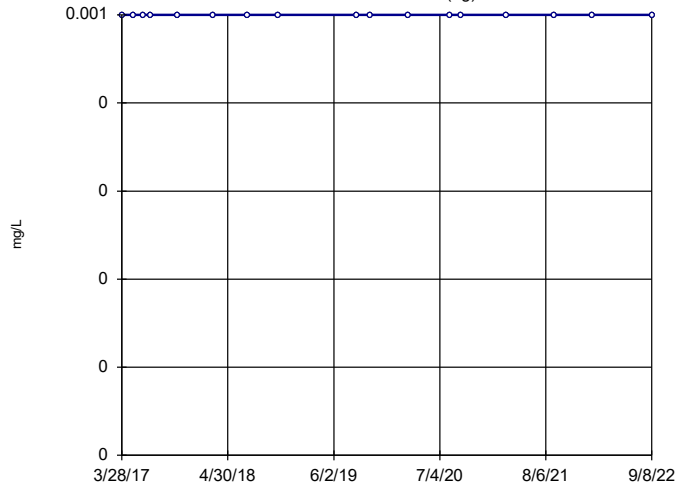
Plant McDonough    Client: Southern Company    Data: McDonough AP    Printed 11/22/2022, 10:13 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Arsenic (mg/L)	DGWA-53 (bg)	0	2	63	No	17	58.82	n/a	n/a	0.01	NP
Arsenic (mg/L)	DGWA-70A (bg)	0	-31	-63	No	17	82.35	n/a	n/a	0.01	NP
Arsenic (mg/L)	DGWA-71 (bg)	0	24	58	No	16	81.25	n/a	n/a	0.01	NP
Arsenic (mg/L)	DGWC-9	-0.0002264	-4	-63	No	17	5.882	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWA-53 (bg)	0	0	63	No	17	100	n/a	n/a	0.01	NP
<b>Beryllium (mg/L)</b>	<b>DGWA-70A (bg)</b>	<b>-0.0005528</b>	<b>-75</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>47.06</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Beryllium (mg/L)	DGWA-71 (bg)	-0.00001726	-46	-63	No	17	29.41	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-10	0.0005202	26	58	No	16	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-47	-0.0008716	-63	-63	No	17	0	n/a	n/a	0.01	NP
<b>Beryllium (mg/L)</b>	<b>DGWC-48</b>	<b>-0.0003618</b>	<b>-75</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Beryllium (mg/L)	DGWC-5	0.0004942	44	58	No	16	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-9	0.00003719	9	63	No	17	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	B-92	-0.00171	-3	-12	No	5	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	B-93	0.001505	13	18	No	7	0	n/a	n/a	0.01	NP
<b>Cobalt (mg/L)</b>	<b>DGWA-53 (bg)</b>	<b>-0.004341</b>	<b>-86</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Cobalt (mg/L)	DGWA-70A (bg)	0	11	63	No	17	52.94	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWA-71 (bg)	0	23	58	No	16	68.75	n/a	n/a	0.01	NP
<b>Cobalt (mg/L)</b>	<b>DGWC-10</b>	<b>-0.02391</b>	<b>-81</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Cobalt (mg/L)	DGWC-19	-0.0001283	-13	-63	No	17	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-20	0.05164	45	63	No	17	0	n/a	n/a	0.01	NP
<b>Cobalt (mg/L)</b>	<b>DGWC-47</b>	<b>-0.04254</b>	<b>-94</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Cobalt (mg/L)</b>	<b>DGWC-48</b>	<b>-0.04236</b>	<b>-118</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Cobalt (mg/L)</b>	<b>DGWC-8</b>	<b>-0.01359</b>	<b>-84</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Cobalt (mg/L)</b>	<b>DGWC-9</b>	<b>0.02203</b>	<b>94</b>	<b>63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Cobalt (mg/L)	B-104D	-0.02997	-5	-14	No	6	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	B-56	0.004575	10	14	No	6	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	B-63	-0.001791	-4	-18	No	7	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	B-93	-0.002781	-12	-18	No	7	0	n/a	n/a	0.01	NP
<b>Combined Radium 226 + 228 (pCi/L)</b>	<b>DGWA-53 (bg)</b>	<b>-0.5606</b>	<b>-74</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Combined Radium 226 + 228 (pCi/L)	DGWA-70A (bg)	0.02757	9	68	No	18	0	n/a	n/a	0.01	NP
Combined Radium 226 + 228 (pCi/L)	DGWA-71 (bg)	0.0095	5	63	No	17	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
Lithium (mg/L)	DGWA-53 (bg)	-0.0001177	-22	-63	No	17	5.882	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWA-70A (bg)	0	21	63	No	17	82.35	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWA-71 (bg)	-0.0001133	-55	-58	No	16	18.75	n/a	n/a	0.01	NP
<b>Lithium (mg/L)</b>	<b>DGWC-47</b>	<b>-0.005519</b>	<b>-84</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Lithium (mg/L)</b>	<b>DGWC-48</b>	<b>-0.006296</b>	<b>-90</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>



### Sen's Slope Estimator

DGWA-53 (bg)

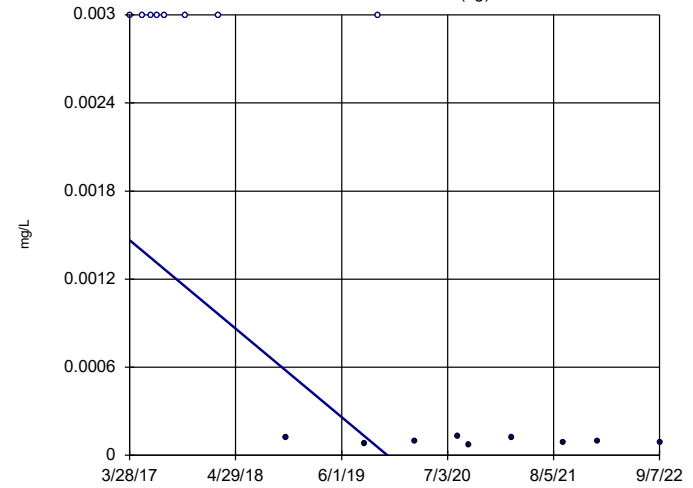


n = 17  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 63  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Beryllium Analysis Run 11/22/2022 10:09 AM View: AP 234 Appendix IV Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWA-70A (bg)

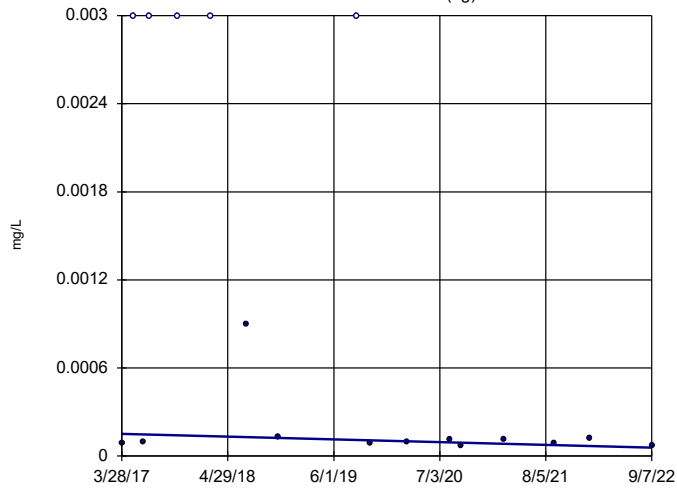


n = 17  
Slope = -0.0005528  
units per year.  
Mann-Kendall  
statistic = -75  
critical = -63  
Decreasing trend  
significant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Beryllium Analysis Run 11/22/2022 10:09 AM View: AP 234 Appendix IV Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWA-71 (bg)

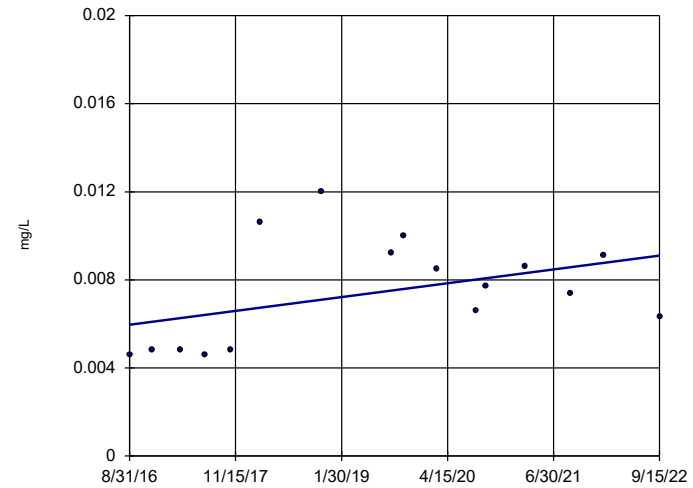


n = 17  
Slope = -0.00001726  
units per year.  
Mann-Kendall  
statistic = -46  
critical = -63  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Beryllium Analysis Run 11/22/2022 10:09 AM View: AP 234 Appendix IV Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

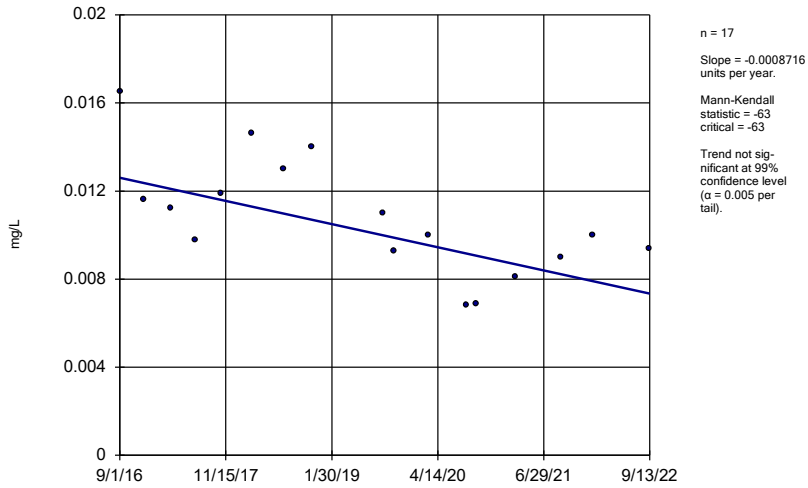
DGWC-10



n = 16  
Slope = 0.0005202  
units per year.  
Mann-Kendall  
statistic = 26  
critical = 58  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

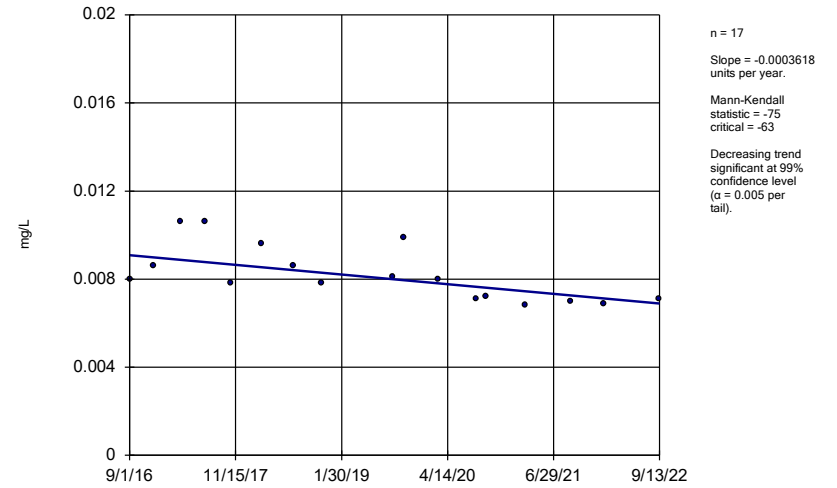
Constituent: Beryllium Analysis Run 11/22/2022 10:09 AM View: AP 234 Appendix IV Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-47



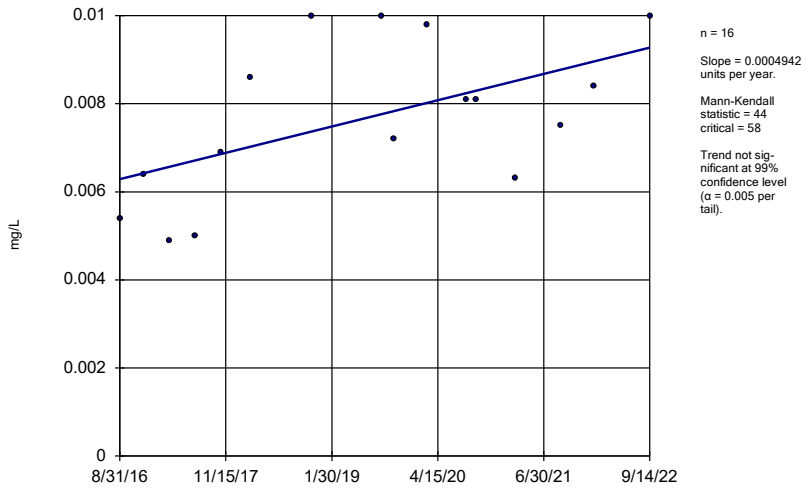
Constituent: Beryllium Analysis Run 11/22/2022 10:09 AM View: AP 234 Appendix IV Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-48



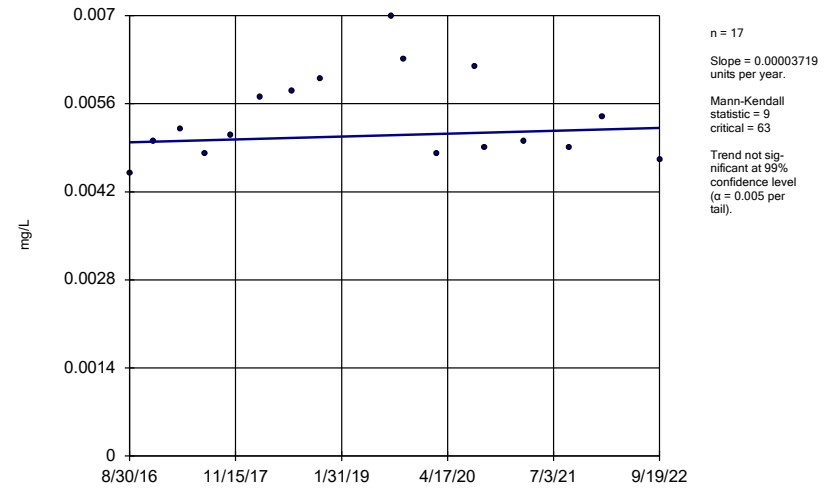
Constituent: Beryllium Analysis Run 11/22/2022 10:09 AM View: AP 234 Appendix IV Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-5



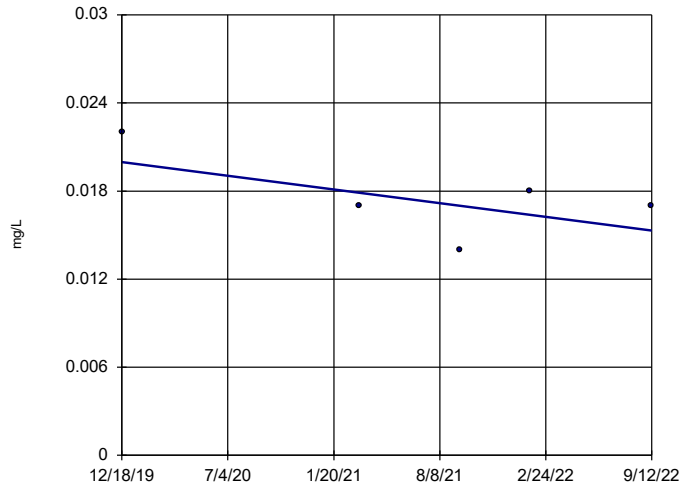
Constituent: Beryllium Analysis Run 11/22/2022 10:09 AM View: AP 234 Appendix IV Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-9



Constituent: Beryllium Analysis Run 11/22/2022 10:09 AM View: AP 234 Appendix IV Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

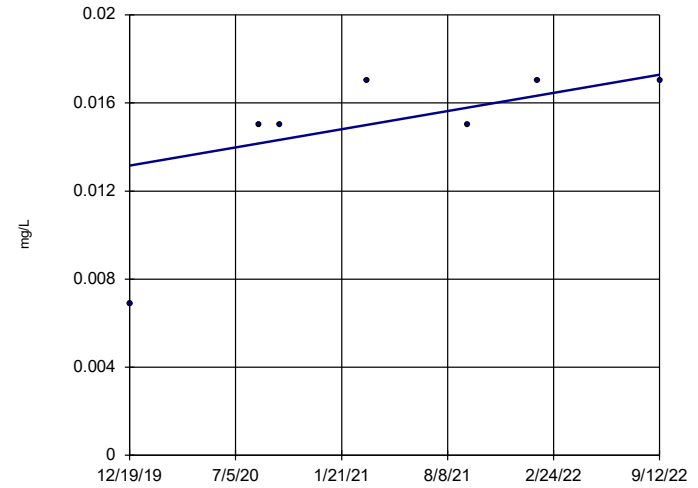
### Sen's Slope Estimator B-92



n = 5  
 Slope = -0.00171  
 units per year.  
 Mann-Kendall  
 statistic = -3  
 critical = -12  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Beryllium Analysis Run 11/22/2022 10:09 AM View: AP 234 Appendix IV Trend Tests  
 Plant McDonough Client: Southern Company Data: McDonough AP

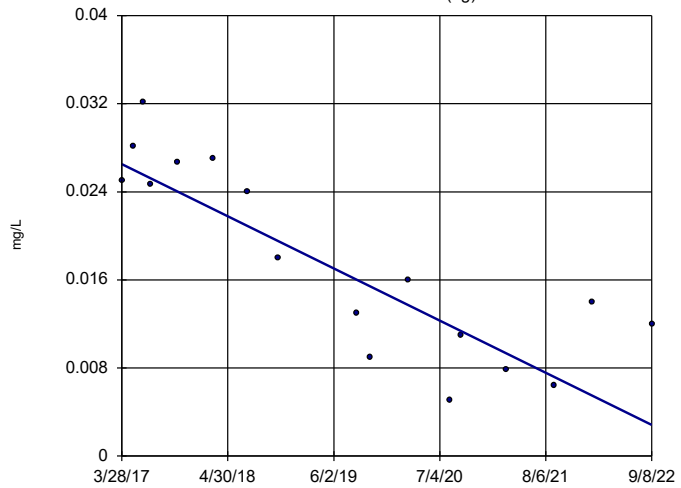
### Sen's Slope Estimator B-93



n = 7  
 Slope = 0.001505  
 units per year.  
 Mann-Kendall  
 statistic = 13  
 critical = 18  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Beryllium Analysis Run 11/22/2022 10:09 AM View: AP 234 Appendix IV Trend Tests  
 Plant McDonough Client: Southern Company Data: McDonough AP

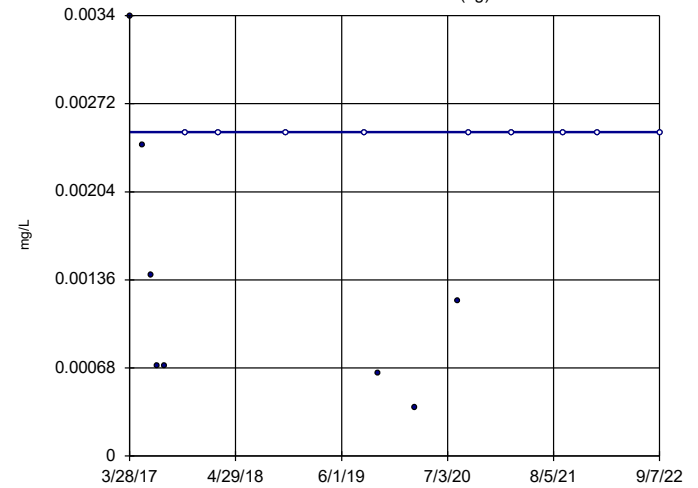
### Sen's Slope Estimator DGWA-53 (bg)



n = 17  
 Slope = -0.004341  
 units per year.  
 Mann-Kendall  
 statistic = -86  
 critical = -63  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Cobalt Analysis Run 11/22/2022 10:09 AM View: AP 234 Appendix IV Trend Tests  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWA-70A (bg)



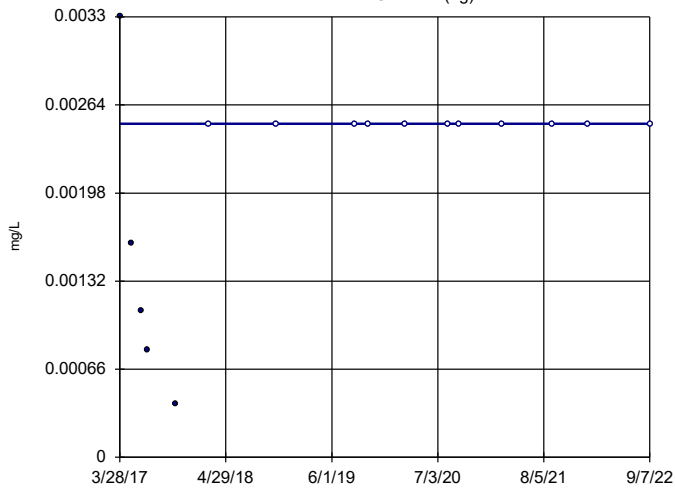
n = 17  
 Slope = 0  
 units per year.  
 Mann-Kendall  
 statistic = 11  
 critical = 63  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Cobalt Analysis Run 11/22/2022 10:09 AM View: AP 234 Appendix IV Trend Tests  
 Plant McDonough Client: Southern Company Data: McDonough AP



### Sen's Slope Estimator

DGWA-71 (bg)

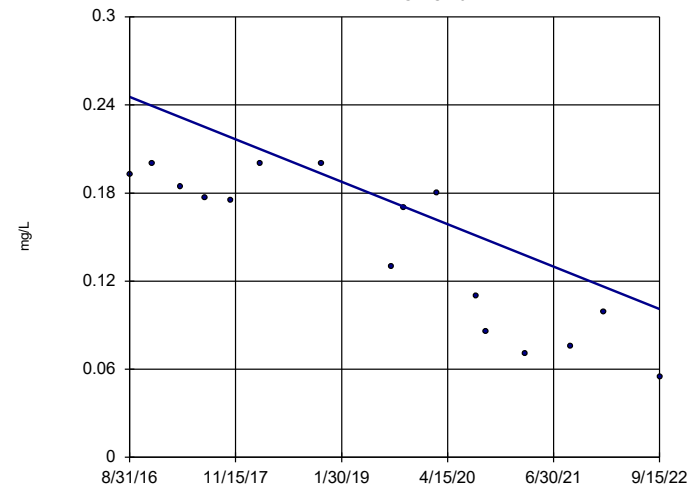


n = 16  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 23  
critical = 58  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Cobalt Analysis Run 11/22/2022 10:10 AM View: AP 234 Appendix IV Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-10

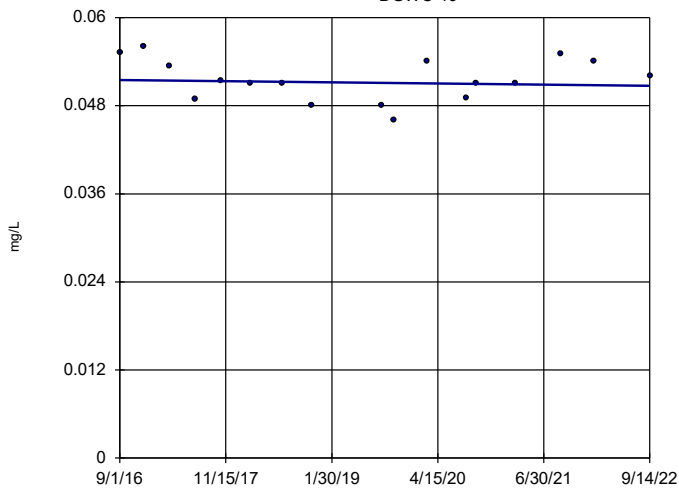


n = 16  
Slope = -0.02391  
units per year.  
Mann-Kendall  
statistic = -81  
critical = -58  
Decreasing trend  
significant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Cobalt Analysis Run 11/22/2022 10:10 AM View: AP 234 Appendix IV Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-19

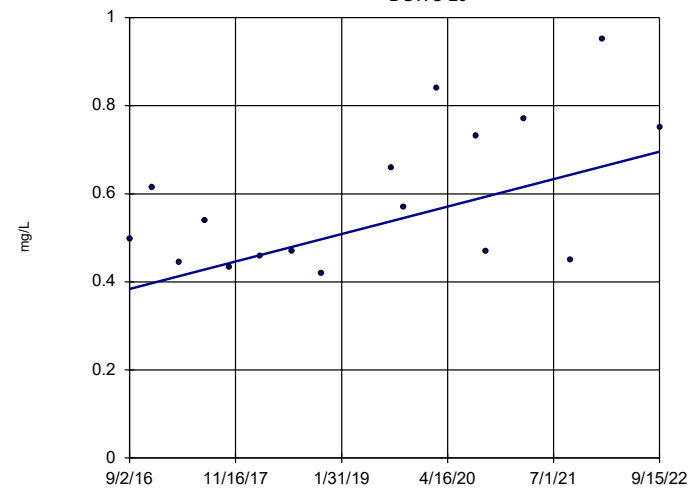


n = 17  
Slope = -0.0001283  
units per year.  
Mann-Kendall  
statistic = -13  
critical = -63  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Cobalt Analysis Run 11/22/2022 10:10 AM View: AP 234 Appendix IV Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

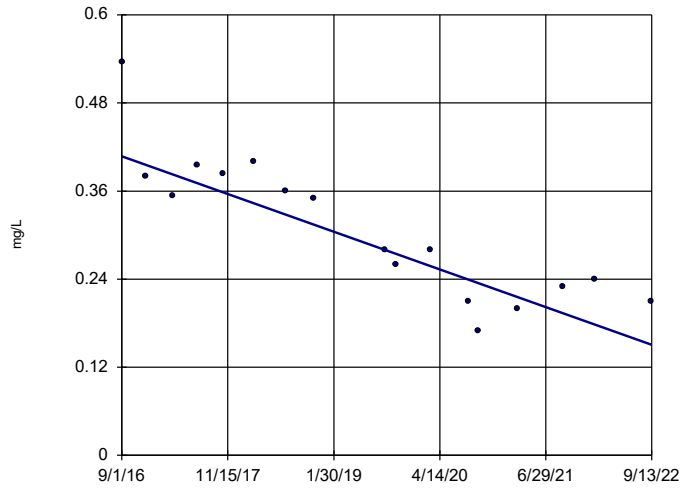
DGWC-20



n = 17  
Slope = 0.05164  
units per year.  
Mann-Kendall  
statistic = 45  
critical = 63  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

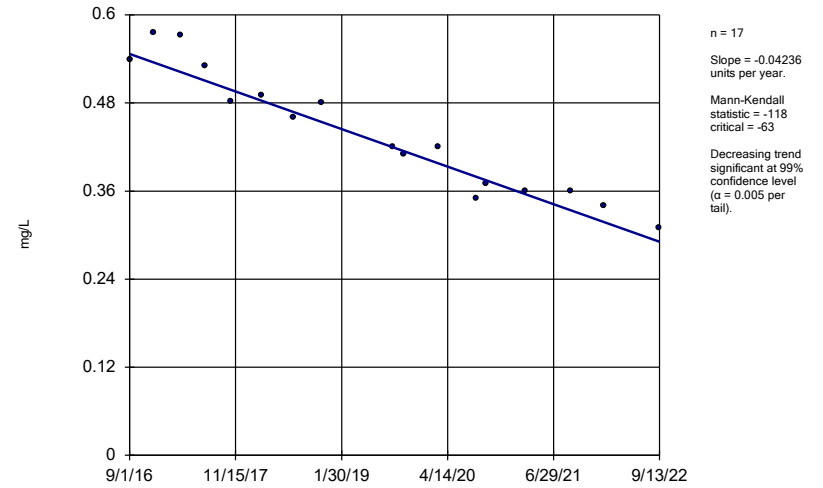
Constituent: Cobalt Analysis Run 11/22/2022 10:10 AM View: AP 234 Appendix IV Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-47



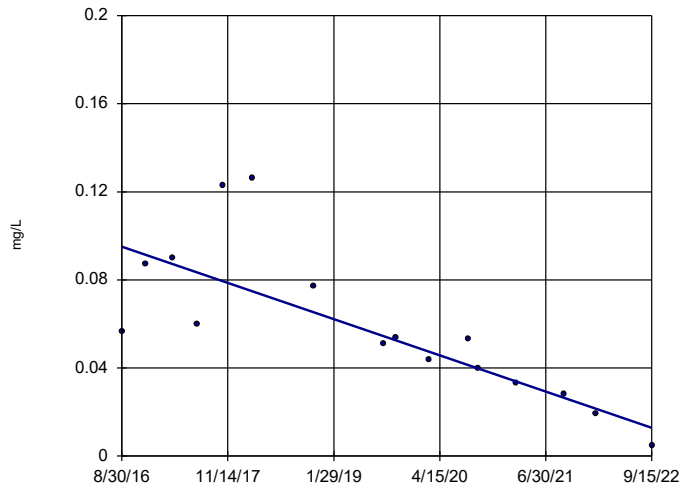
Constituent: Cobalt Analysis Run 11/22/2022 10:10 AM View: AP 234 Appendix IV Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-48



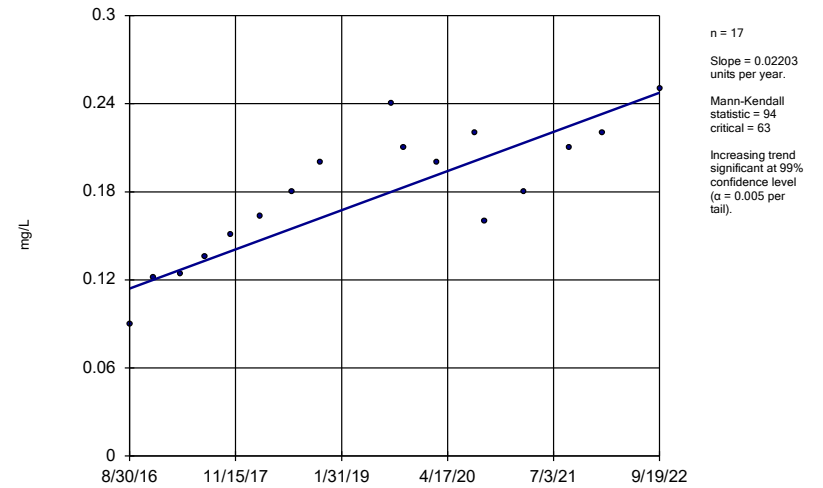
Constituent: Cobalt Analysis Run 11/22/2022 10:10 AM View: AP 234 Appendix IV Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-8



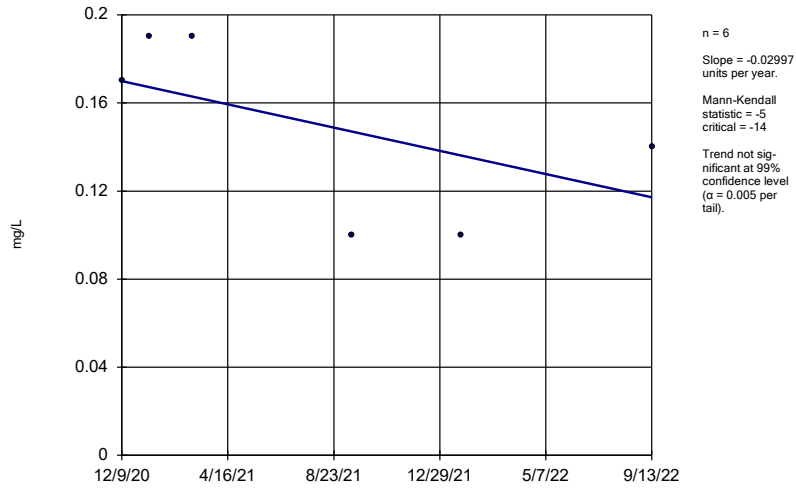
Constituent: Cobalt Analysis Run 11/22/2022 10:10 AM View: AP 234 Appendix IV Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-9



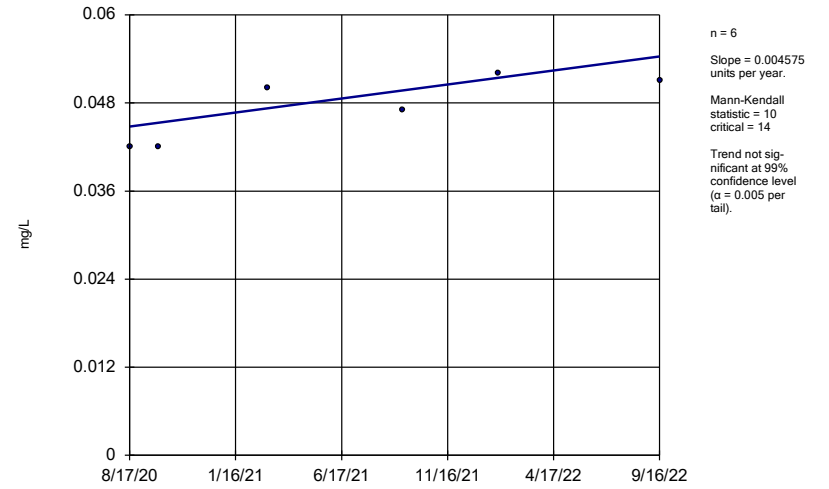
Constituent: Cobalt Analysis Run 11/22/2022 10:10 AM View: AP 234 Appendix IV Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
B-104D



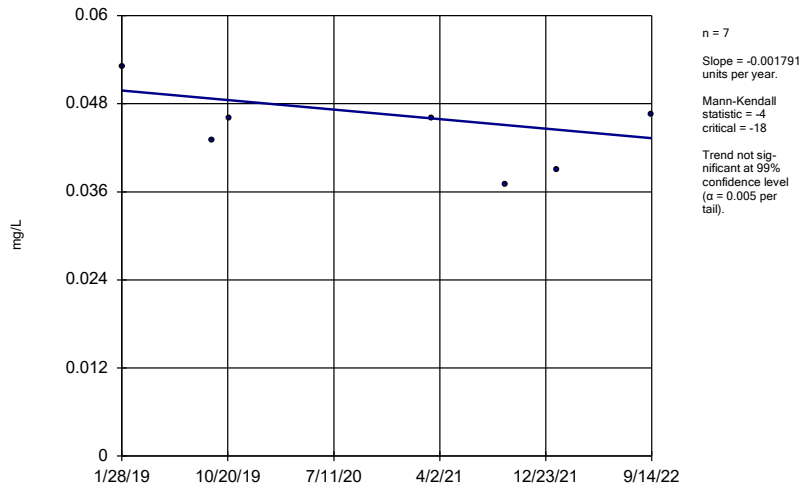
Constituent: Cobalt Analysis Run 11/22/2022 10:10 AM View: AP 234 Appendix IV Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
B-56



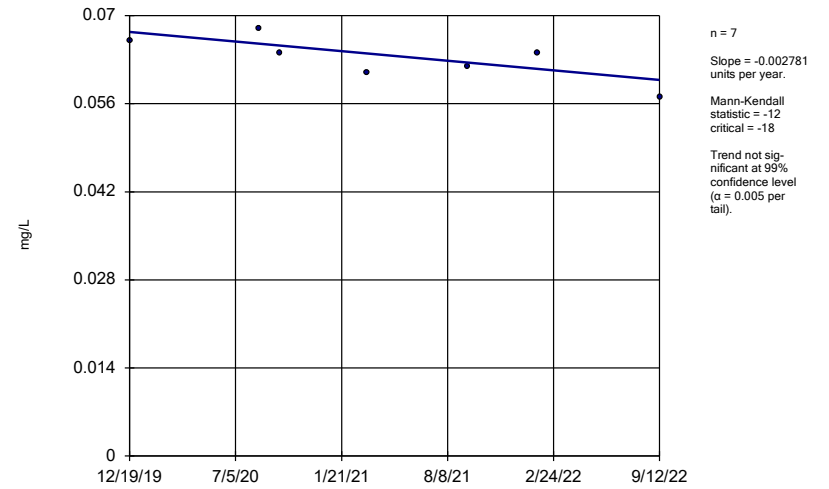
Constituent: Cobalt Analysis Run 11/22/2022 10:10 AM View: AP 234 Appendix IV Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
B-63



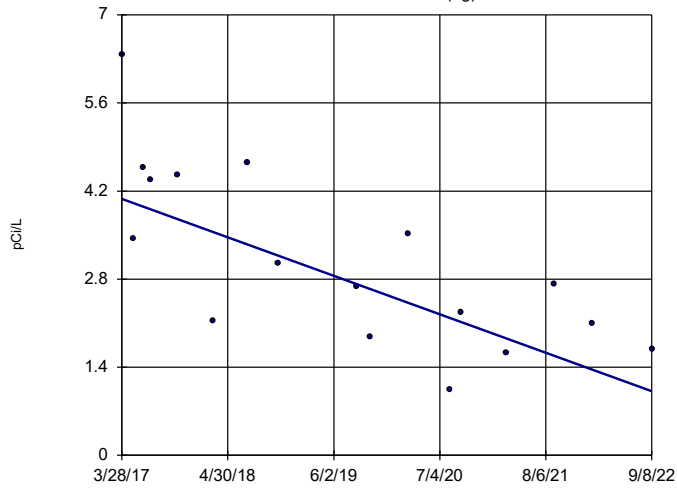
Constituent: Cobalt Analysis Run 11/22/2022 10:10 AM View: AP 234 Appendix IV Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
B-93



Constituent: Cobalt Analysis Run 11/22/2022 10:10 AM View: AP 234 Appendix IV Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

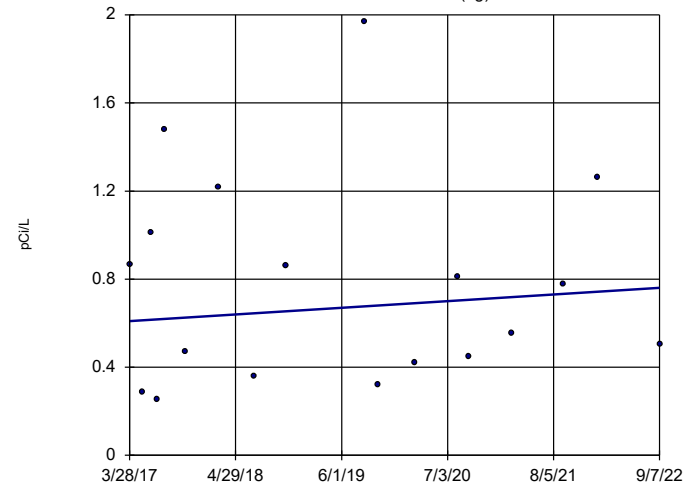
Sen's Slope Estimator  
DGWA-53 (bg)



n = 17  
Slope = -0.5606  
units per year.  
Mann-Kendall  
statistic = -74  
critical = -63  
Decreasing trend  
significant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Combined Radium 226 + 228 Analysis Run 11/22/2022 10:10 AM View: AP 234 Appendix IV  
Plant McDonough Client: Southern Company Data: McDonough AP

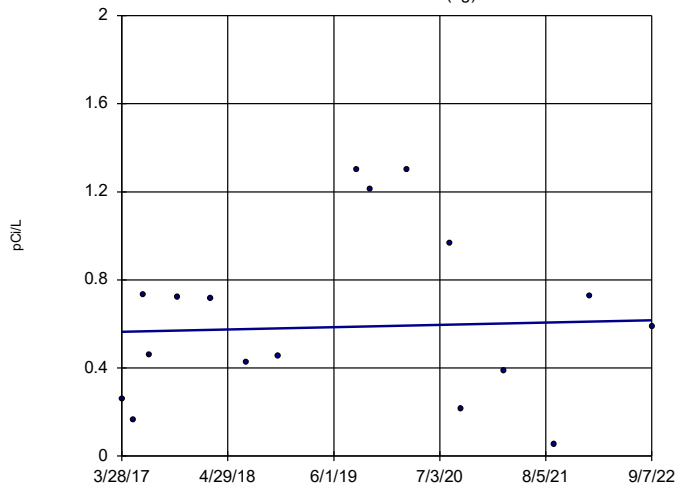
Sen's Slope Estimator  
DGWA-70A (bg)



n = 18  
Slope = 0.02757  
units per year.  
Mann-Kendall  
statistic = 9  
critical = 68  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Combined Radium 226 + 228 Analysis Run 11/22/2022 10:10 AM View: AP 234 Appendix IV  
Plant McDonough Client: Southern Company Data: McDonough AP

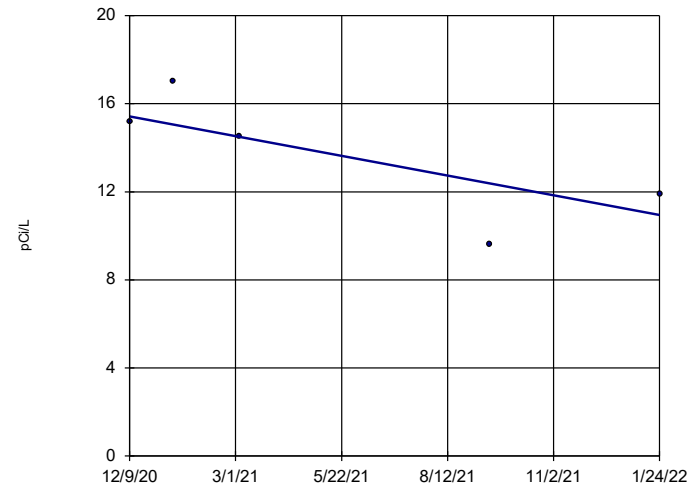
Sen's Slope Estimator  
DGWA-71 (bg)



n = 17  
Slope = 0.0095  
units per year.  
Mann-Kendall  
statistic = 5  
critical = 63  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Combined Radium 226 + 228 Analysis Run 11/22/2022 10:10 AM View: AP 234 Appendix IV  
Plant McDonough Client: Southern Company Data: McDonough AP

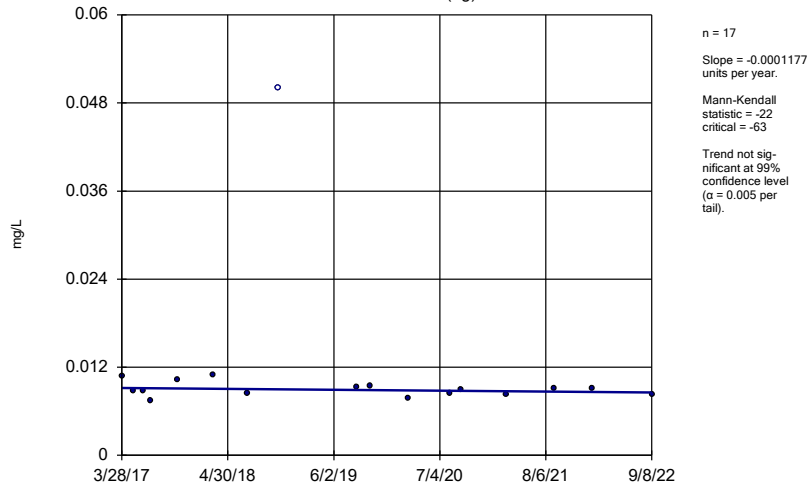
Sen's Slope Estimator  
B-104D



n = 5  
Slope = -3.972  
units per year.  
Mann-Kendall  
statistic = -6  
critical = -12  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

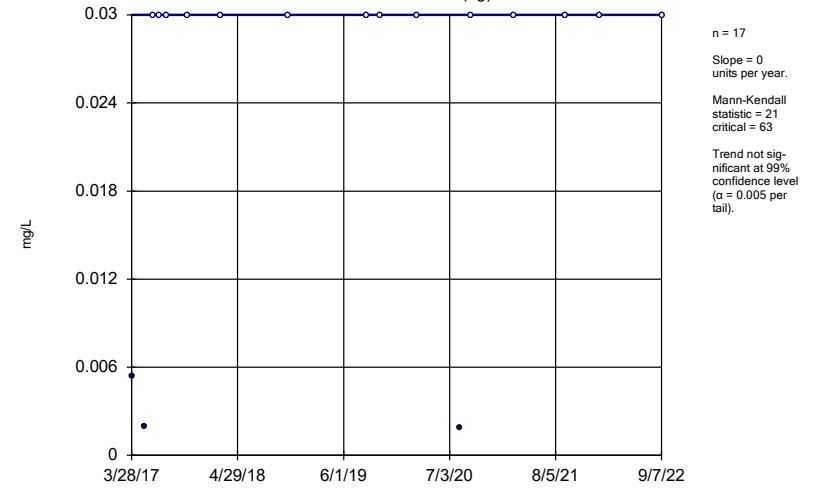
Constituent: Combined Radium 226 + 228 Analysis Run 11/22/2022 10:10 AM View: AP 234 Appendix IV  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWA-53 (bg)



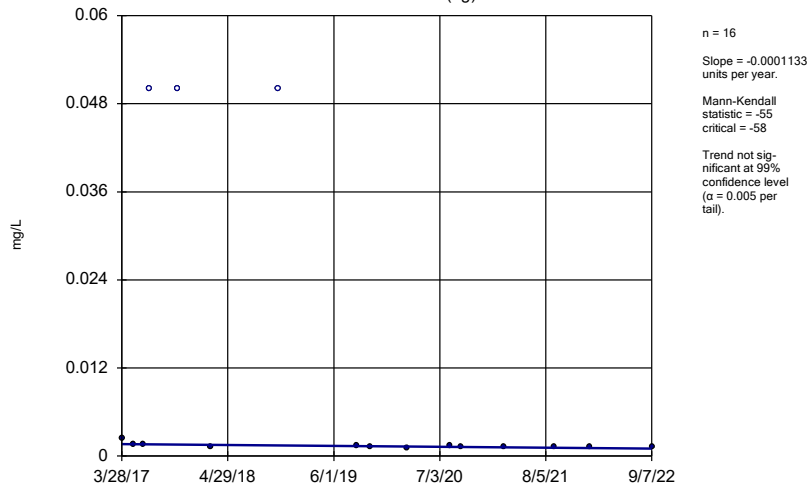
Constituent: Lithium Analysis Run 11/22/2022 10:10 AM View: AP 234 Appendix IV Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWA-70A (bg)



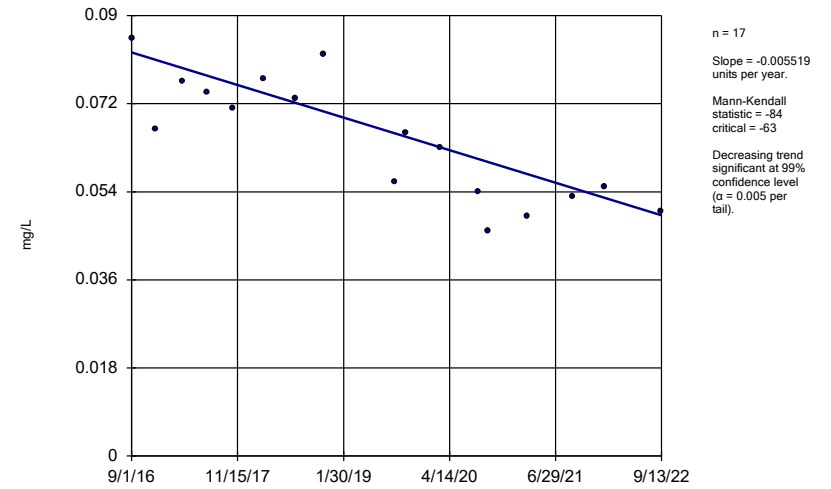
Constituent: Lithium Analysis Run 11/22/2022 10:10 AM View: AP 234 Appendix IV Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWA-71 (bg)



Constituent: Lithium Analysis Run 11/22/2022 10:10 AM View: AP 234 Appendix IV Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

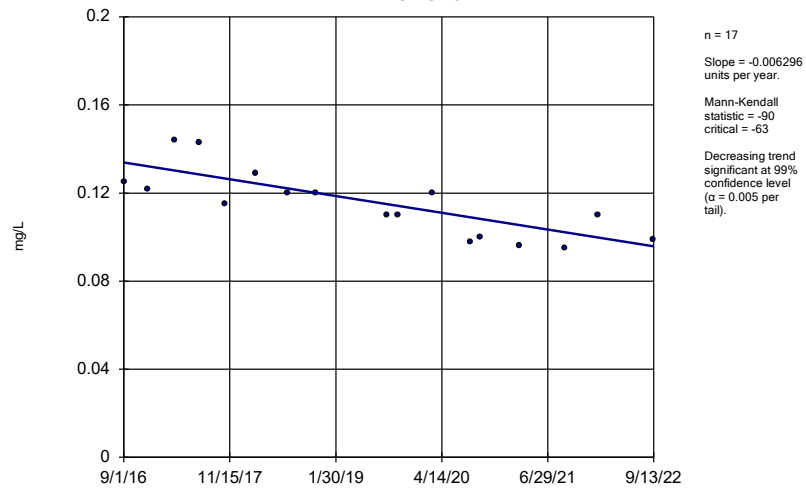
Sen's Slope Estimator  
DGWC-47



Constituent: Lithium Analysis Run 11/22/2022 10:10 AM View: AP 234 Appendix IV Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-48

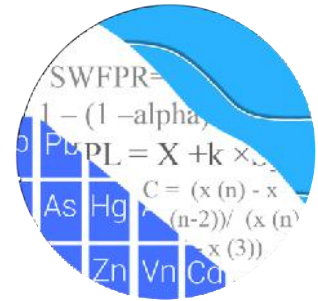


Constituent: Lithium Analysis Run 11/22/2022 10:10 AM View: AP 234 Appendix IV Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

**APPENDIX D**

**Statistical Analyses, January-February 2023**

# GROUNDWATER STATS CONSULTING



July 31, 2023

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/February 2023 Statistical Analysis

Dear Mr. Abraham,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the January/February 2023 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



- **Assessment 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-120D, and B-122D

The assessment 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-120D
- **2022** – B-122D

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Andrew Collins, Project Manager for 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 assessment 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, 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/February 2023**

### Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data through February 2023 (Figure D). 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/February 2023 sample from each downgradient well is compared to the background limit to determine whether initial exceedances are present.

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. When a resample confirms the initial exceedance, a statistically significant increase is identified, and further research would be required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result. Therefore, no exceedance is noted, and no further action is necessary. If no resample is collected, the original result is considered a confirmed exceedance. 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 at the 99% confidence level (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 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, DGWC-11, DGWC-17
- Calcium: DGWC-4, DGWC-5, DGWC-11, DGWC-19, DGWC-21, and DGWC-23
- Chloride: DGWC-5, DGWC-9, DGWC-15, and DGWC-20
- pH: DGWC-2, 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-13, DGWC-19, DGWC-20, DGWC-47, and DGWC-48
- Calcium: DGWC-9, DGWC-48, and DGWA-53 (upgradient)
- Chloride: DGWC-4, DGWC-19, DGWC-21, DGWC-22, DGWC-23, DGWC-42, and DGWA-53 (upgradient)
- Fluoride: DGWC-47 and DGWC-48
- pH: DGWC-9, DGWC-20, and DGWC-47
- Sulfate: DGWC-2, DGWC-8, DGWC-10, DGWC-12, DGWC-13, DGWC-15, DGWC-20, DGWC-42, DGWC-47, DGWC-48, and DGWA-71 (upgradient)
- TDS: DGWC-10, DGWC-20, DGWC-48, and DGWA-53 (upgradient)

### **Statistical Analysis of Appendix IV Parameters – January/February 2023**

For Appendix IV parameters, confidence intervals for each downgradient and assessment 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 assessment 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 February 2023 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.

## 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 assessment wells had insufficient samples at this time.

The Sanitas software was used to calculate the tolerance limits and the confidence intervals. These intervals were constructed as either parametric or nonparametric confidence intervals depending on the data distribution and percentage of non-detects. When data followed a normal or transformed-normal distribution, parametric confidence intervals were used for Appendix IV parameters. The lower confidence limit, which is constructed with 99% confidence for parametric confidence intervals, is compared to the GWPS prepared as described above. Nonparametric confidence intervals were constructed when data did not follow a normal or transformed-normal distribution or when there were greater than 50% non-detects. The confidence level associated with nonparametric confidence intervals is dependent upon the number samples available.

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-92, B-93, and B-104D
- Combined Radium 226 + 228: B-104D and B-109D
- Lithium: DGWC-47, DGWC-48, and B-120D

#### 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 at the 99% confidence level (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 variability in groundwater quality unrelated to practices at the site. Note that a trend test was not included for cobalt at well B-92 because trend tests require a minimum of 5 samples and these well/constituent pairs do not yet meet the minimum sample requirement. 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

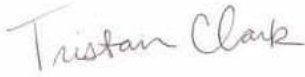


Decreasing

- Beryllium: DGWA-70A (upgradient), DGWC-47 and DGWC-48
- Cobalt: DGWA-53 (upgradient), DGWC-8, 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,



Tristan Clark  
Groundwater Analyst



Andrew Collins  
Project Manager

# 100% Non-Detects: Appendix IV Downgradient & Assessment

Analysis Run 4/17/2023 10:47 AM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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**Antimony (mg/L)**

B-107D, B-108D, B-122D, B-66, B-82, B-83, B-88, B-92, B-97, DGWC-11, DGWC-13, DGWC-20, DGWC-22, DGWC-42, DGWC-9

**Arsenic (mg/L)**

B-100, B-102D, B-106D, B-107D, B-108D, B-122D, B-66, B-88, B-98, DGWC-11, DGWC-13, DGWC-21, DGWC-23

**Beryllium (mg/L)**

B-108D, B-111D, B-66, DGWC-14, DGWC-2

**Cadmium (mg/L)**

B-104D, B-107D, B-108D, B-109D, B-111D, B-122D, B-62, B-66, B-77, DGWC-14

**Chromium (mg/L)**

B-102D, B-107D, B-108D, B-111D, B-120D, B-122D, B-66, B-92, B-97, DGWC-14

**Cobalt (mg/L)**

B-109D, DGWC-14

**Lead (mg/L)**

B-106D, B-108D, B-109D, B-122D, B-62, B-66, B-92, B-97, B-98, DGWC-22

**Mercury (mg/L)**

B-102D, B-106D, B-109D, B-120D, B-122D, B-62, B-63, B-77, B-83, B-97, B-98, DGWC-47

**Molybdenum (mg/L)**

B-106D, B-107D, B-108D, B-56, B-62, B-63, B-77, B-82, B-83, B-92, B-93, B-97, 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

**Selenium (mg/L)**

B-102D, B-106D, B-107D, B-109D, B-122D, B-62, B-63, B-66, DGWC-11, DGWC-21, DGWC-23, DGWC-42

**Thallium (mg/L)**

B-100, B-101D, B-102D, B-104D, B-106D, B-107D, B-108D, B-109D, B-111D, B-120D, B-122D, B-62, B-63, B-66, B-77, B-93, B-97, B-98, DGWC-11, DGWC-13, DGWC-14, DGWC-15, DGWC-2, DGWC-21, DGWC-23

# Interwell Prediction Limit - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/17/2023, 9:08 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mear	Std. Dev	%NDs	ND Adj.	Transform	Alpha	Method
Boron, total (mg/L)	DGWC-10	0.13	n/a	2/2/2023	0.34	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-11	0.13	n/a	2/6/2023	1.6	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-12	0.13	n/a	2/6/2023	0.51	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-13	0.13	n/a	2/1/2023	0.54	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-14	0.13	n/a	2/1/2023	0.16	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-15	0.13	n/a	2/2/2023	1.3	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-17	0.13	n/a	2/6/2023	0.83	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-19	0.13	n/a	2/6/2023	2.2	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-2	0.13	n/a	2/6/2023	0.38	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-20	0.13	n/a	2/7/2023	3	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-21	0.13	n/a	2/7/2023	5.6	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-22	0.13	n/a	2/6/2023	3.8	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-23	0.13	n/a	2/6/2023	4.4	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-4	0.13	n/a	2/3/2023	4.5	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-42	0.13	n/a	2/1/2023	0.94	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-47	0.13	n/a	2/3/2023	0.16	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-48	0.13	n/a	2/3/2023	0.59	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-5	0.13	n/a	2/7/2023	3.5	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-8	0.13	n/a	2/7/2023	0.74	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-9	0.13	n/a	2/3/2023	0.61	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-10	40.3	n/a	2/2/2023	60.8	Yes	50	n/a	n/a	4	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-11	40.3	n/a	2/6/2023	58.8	Yes	50	n/a	n/a	4	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-19	40.3	n/a	2/6/2023	105	Yes	50	n/a	n/a	4	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-20	40.3	n/a	2/7/2023	110	Yes	50	n/a	n/a	4	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-21	40.3	n/a	2/7/2023	84.8	Yes	50	n/a	n/a	4	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-22	40.3	n/a	2/6/2023	56.7	Yes	50	n/a	n/a	4	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-23	40.3	n/a	2/6/2023	86.4	Yes	50	n/a	n/a	4	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-4	40.3	n/a	2/3/2023	287	Yes	50	n/a	n/a	4	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-48	40.3	n/a	2/3/2023	64.1	Yes	50	n/a	n/a	4	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-5	40.3	n/a	2/7/2023	139	Yes	50	n/a	n/a	4	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-9	40.3	n/a	2/3/2023	43.8	Yes	50	n/a	n/a	4	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-10	8.2	n/a	2/2/2023	9.9	Yes	52	n/a	n/a	0	n/a	n/a	0.0006679	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-11	8.2	n/a	2/6/2023	12.1	Yes	52	n/a	n/a	0	n/a	n/a	0.0006679	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-13	8.2	n/a	2/1/2023	12.2	Yes	52	n/a	n/a	0	n/a	n/a	0.0006679	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-15	8.2	n/a	2/2/2023	22.1	Yes	52	n/a	n/a	0	n/a	n/a	0.0006679	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-17	8.2	n/a	2/6/2023	18.8	Yes	52	n/a	n/a	0	n/a	n/a	0.0006679	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-19	8.2	n/a	2/6/2023	17.9	Yes	52	n/a	n/a	0	n/a	n/a	0.0006679	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-20	8.2	n/a	2/7/2023	27.9	Yes	52	n/a	n/a	0	n/a	n/a	0.0006679	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-21	8.2	n/a	2/7/2023	18.6	Yes	52	n/a	n/a	0	n/a	n/a	0.0006679	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-22	8.2	n/a	2/6/2023	16.9	Yes	52	n/a	n/a	0	n/a	n/a	0.0006679	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-23	8.2	n/a	2/6/2023	12.4	Yes	52	n/a	n/a	0	n/a	n/a	0.0006679	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-4	8.2	n/a	2/3/2023	11	Yes	52	n/a	n/a	0	n/a	n/a	0.0006679	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-42	8.2	n/a	2/1/2023	19.3	Yes	52	n/a	n/a	0	n/a	n/a	0.0006679	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-5	8.2	n/a	2/7/2023	10	Yes	52	n/a	n/a	0	n/a	n/a	0.0006679	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-8	8.2	n/a	2/7/2023	8.7	Yes	52	n/a	n/a	0	n/a	n/a	0.0006679	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-9	8.2	n/a	2/3/2023	14.7	Yes	52	n/a	n/a	0	n/a	n/a	0.0006679	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-10	0.42	n/a	2/2/2023	1.1	Yes	57	n/a	n/a	47.37	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-20	0.42	n/a	2/7/2023	1.1	Yes	57	n/a	n/a	47.37	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-47	0.42	n/a	2/3/2023	0.45	Yes	57	n/a	n/a	47.37	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-48	0.42	n/a	2/3/2023	0.48	Yes	57	n/a	n/a	47.37	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-9	0.42	n/a	2/3/2023	0.9	Yes	57	n/a	n/a	47.37	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-10	6.69	5.43	2/2/2023	4.67	Yes	59	n/a	n/a	0	n/a	n/a	0.001051	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-17	6.69	5.43	2/6/2023	5.13	Yes	59	n/a	n/a	0	n/a	n/a	0.001051	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-19	6.69	5.43	2/6/2023	4.82	Yes	59	n/a	n/a	0	n/a	n/a	0.001051	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-2	6.69	5.43	2/6/2023	5.17	Yes	59	n/a	n/a	0	n/a	n/a	0.001051	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-20	6.69	5.43	2/7/2023	4.33	Yes	59	n/a	n/a	0	n/a	n/a	0.001051	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-42	6.69	5.43	2/1/2023	5.17	Yes	59	n/a	n/a	0	n/a	n/a	0.001051	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-47	6.69	5.43	2/3/2023	3.88	Yes	59	n/a	n/a	0	n/a	n/a	0.001051	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-48	6.69	5.43	2/3/2023	4.2	Yes	59	n/a	n/a	0	n/a	n/a	0.001051	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-5	6.69	5.43	2/7/2023	4.89	Yes	59	n/a	n/a	0	n/a	n/a	0.001051	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-8	6.69	5.43	2/7/2023	5.23	Yes	59	n/a	n/a	0	n/a	n/a	0.001051	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-9	6.69	5.43	2/3/2023	4.02	Yes	59	n/a	n/a	0	n/a	n/a	0.001051	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-10	37.04	n/a	2/2/2023	235	Yes	52	1.694	0.7439	15.38	Kaplan-Meier x^(1/3)	n/a	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-11	37.04	n/a	2/6/2023	273	Yes	52	1.694	0.7439	15.38	Kaplan-Meier x^(1/3)	n/a	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-12	37.04	n/a	2/6/2023	142	Yes	52	1.694	0.7439	15.38	Kaplan-Meier x^(1/3)	n/a	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-13	37.04	n/a	2/1/2023	97.5	Yes	52	1.694	0.7439	15.38	Kaplan-Meier x^(1/3)	n/a	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-14	37.04	n/a	2/1/2023	45.9	Yes	52	1.694	0.7439	15.38	Kaplan-Meier x^(1/3)	n/a	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-15	37.04	n/a	2/2/2023	137	Yes	52	1.694	0.7439	15.38	Kaplan-Meier x^(1/3)	n/a	0.0003762	Param Inter 1 of 2

# Interwell Prediction Limit - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/17/2023, 9:08 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mear	Std. Dev	%NDs	ND Adj.	Transform	Alpha	Method
Sulfate as SO4 (mg/L)	DGWC-17	37.04	n/a	2/6/2023	262	Yes	52	1.694	0.7439	15.38	Kaplan-Meier	x^(1/3)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-19	37.04	n/a	2/6/2023	379	Yes	52	1.694	0.7439	15.38	Kaplan-Meier	x^(1/3)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-2	37.04	n/a	2/6/2023	96.4	Yes	52	1.694	0.7439	15.38	Kaplan-Meier	x^(1/3)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-20	37.04	n/a	2/7/2023	517	Yes	52	1.694	0.7439	15.38	Kaplan-Meier	x^(1/3)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-21	37.04	n/a	2/7/2023	285	Yes	52	1.694	0.7439	15.38	Kaplan-Meier	x^(1/3)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-22	37.04	n/a	2/6/2023	235	Yes	52	1.694	0.7439	15.38	Kaplan-Meier	x^(1/3)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-23	37.04	n/a	2/6/2023	262	Yes	52	1.694	0.7439	15.38	Kaplan-Meier	x^(1/3)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-4	37.04	n/a	2/3/2023	949	Yes	52	1.694	0.7439	15.38	Kaplan-Meier	x^(1/3)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-42	37.04	n/a	2/1/2023	313	Yes	52	1.694	0.7439	15.38	Kaplan-Meier	x^(1/3)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-47	37.04	n/a	2/3/2023	138	Yes	52	1.694	0.7439	15.38	Kaplan-Meier	x^(1/3)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-48	37.04	n/a	2/3/2023	301	Yes	52	1.694	0.7439	15.38	Kaplan-Meier	x^(1/3)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-5	37.04	n/a	2/7/2023	577	Yes	52	1.694	0.7439	15.38	Kaplan-Meier	x^(1/3)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-8	37.04	n/a	2/7/2023	118	Yes	52	1.694	0.7439	15.38	Kaplan-Meier	x^(1/3)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-9	37.04	n/a	2/3/2023	277	Yes	52	1.694	0.7439	15.38	Kaplan-Meier	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-10	268.1	n/a	2/2/2023	390	Yes	51	9.894	2.938	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-11	268.1	n/a	2/6/2023	481	Yes	51	9.894	2.938	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-15	268.1	n/a	2/2/2023	288	Yes	51	9.894	2.938	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-17	268.1	n/a	2/6/2023	403	Yes	51	9.894	2.938	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-19	268.1	n/a	2/6/2023	600	Yes	51	9.894	2.938	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-20	268.1	n/a	2/7/2023	848	Yes	51	9.894	2.938	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-21	268.1	n/a	2/7/2023	498	Yes	51	9.894	2.938	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-22	268.1	n/a	2/6/2023	427	Yes	51	9.894	2.938	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-23	268.1	n/a	2/6/2023	532	Yes	51	9.894	2.938	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-4	268.1	n/a	2/3/2023	1630	Yes	51	9.894	2.938	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-42	268.1	n/a	2/1/2023	541	Yes	51	9.894	2.938	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-48	268.1	n/a	2/3/2023	527	Yes	51	9.894	2.938	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-5	268.1	n/a	2/7/2023	939	Yes	51	9.894	2.938	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-9	268.1	n/a	2/3/2023	437	Yes	51	9.894	2.938	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2

# Interwell Prediction Limit - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/17/2023, 9:08 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mear	Std. Dev	%NDs	ND Adj.	Transform	Alpha	Method
Boron, total (mg/L)	DGWC-10	0.13	n/a	2/2/2023	0.34	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-11	0.13	n/a	2/6/2023	1.6	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-12	0.13	n/a	2/6/2023	0.51	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-13	0.13	n/a	2/1/2023	0.54	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-14	0.13	n/a	2/1/2023	0.16	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-15	0.13	n/a	2/2/2023	1.3	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-17	0.13	n/a	2/6/2023	0.83	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-19	0.13	n/a	2/6/2023	2.2	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-2	0.13	n/a	2/6/2023	0.38	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-20	0.13	n/a	2/7/2023	3	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-21	0.13	n/a	2/7/2023	5.6	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-22	0.13	n/a	2/6/2023	3.8	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-23	0.13	n/a	2/6/2023	4.4	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-4	0.13	n/a	2/3/2023	4.5	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-42	0.13	n/a	2/1/2023	0.94	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-47	0.13	n/a	2/3/2023	0.16	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-48	0.13	n/a	2/3/2023	0.59	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-5	0.13	n/a	2/7/2023	3.5	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-8	0.13	n/a	2/7/2023	0.74	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-9	0.13	n/a	2/3/2023	0.61	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-10	40.3	n/a	2/2/2023	60.8	Yes	50	n/a	n/a	4	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-11	40.3	n/a	2/6/2023	58.8	Yes	50	n/a	n/a	4	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-12	40.3	n/a	2/6/2023	28.3	No	50	n/a	n/a	4	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-13	40.3	n/a	2/1/2023	33.6	No	50	n/a	n/a	4	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-14	40.3	n/a	2/1/2023	11.9	No	50	n/a	n/a	4	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-15	40.3	n/a	2/2/2023	32.2	No	50	n/a	n/a	4	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-17	40.3	n/a	2/6/2023	17.5	No	50	n/a	n/a	4	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-19	40.3	n/a	2/6/2023	105	Yes	50	n/a	n/a	4	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-2	40.3	n/a	2/6/2023	35.3	No	50	n/a	n/a	4	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-20	40.3	n/a	2/7/2023	110	Yes	50	n/a	n/a	4	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-21	40.3	n/a	2/7/2023	84.8	Yes	50	n/a	n/a	4	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-22	40.3	n/a	2/6/2023	56.7	Yes	50	n/a	n/a	4	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-23	40.3	n/a	2/6/2023	86.4	Yes	50	n/a	n/a	4	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-4	40.3	n/a	2/3/2023	287	Yes	50	n/a	n/a	4	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-42	40.3	n/a	2/1/2023	32.7	No	50	n/a	n/a	4	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-47	40.3	n/a	2/3/2023	23.7	No	50	n/a	n/a	4	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-48	40.3	n/a	2/3/2023	64.1	Yes	50	n/a	n/a	4	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-5	40.3	n/a	2/7/2023	139	Yes	50	n/a	n/a	4	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-8	40.3	n/a	2/7/2023	26	No	50	n/a	n/a	4	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-9	40.3	n/a	2/3/2023	43.8	Yes	50	n/a	n/a	4	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-10	8.2	n/a	2/2/2023	9.9	Yes	52	n/a	n/a	0	n/a	n/a	0.0006679	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-11	8.2	n/a	2/6/2023	12.1	Yes	52	n/a	n/a	0	n/a	n/a	0.0006679	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-12	8.2	n/a	2/6/2023	6.8	No	52	n/a	n/a	0	n/a	n/a	0.0006679	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-13	8.2	n/a	2/1/2023	12.2	Yes	52	n/a	n/a	0	n/a	n/a	0.0006679	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-14	8.2	n/a	2/1/2023	4.5	No	52	n/a	n/a	0	n/a	n/a	0.0006679	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-15	8.2	n/a	2/2/2023	22.1	Yes	52	n/a	n/a	0	n/a	n/a	0.0006679	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-17	8.2	n/a	2/6/2023	18.8	Yes	52	n/a	n/a	0	n/a	n/a	0.0006679	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-19	8.2	n/a	2/6/2023	17.9	Yes	52	n/a	n/a	0	n/a	n/a	0.0006679	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-2	8.2	n/a	2/6/2023	2.1	No	52	n/a	n/a	0	n/a	n/a	0.0006679	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-20	8.2	n/a	2/7/2023	27.9	Yes	52	n/a	n/a	0	n/a	n/a	0.0006679	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-21	8.2	n/a	2/7/2023	18.6	Yes	52	n/a	n/a	0	n/a	n/a	0.0006679	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-22	8.2	n/a	2/6/2023	16.9	Yes	52	n/a	n/a	0	n/a	n/a	0.0006679	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-23	8.2	n/a	2/6/2023	12.4	Yes	52	n/a	n/a	0	n/a	n/a	0.0006679	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-4	8.2	n/a	2/3/2023	11	Yes	52	n/a	n/a	0	n/a	n/a	0.0006679	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-42	8.2	n/a	2/1/2023	19.3	Yes	52	n/a	n/a	0	n/a	n/a	0.0006679	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-47	8.2	n/a	2/3/2023	2.6	No	52	n/a	n/a	0	n/a	n/a	0.0006679	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-48	8.2	n/a	2/3/2023	8.2	No	52	n/a	n/a	0	n/a	n/a	0.0006679	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-5	8.2	n/a	2/7/2023	10	Yes	52	n/a	n/a	0	n/a	n/a	0.0006679	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-8	8.2	n/a	2/7/2023	8.7	Yes	52	n/a	n/a	0	n/a	n/a	0.0006679	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-9	8.2	n/a	2/3/2023	14.7	Yes	52	n/a	n/a	0	n/a	n/a	0.0006679	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-10	0.42	n/a	2/2/2023	1.1	Yes	57	n/a	n/a	47.37	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-11	0.42	n/a	2/6/2023	0.1ND	No	57	n/a	n/a	47.37	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-12	0.42	n/a	2/6/2023	0.1	No	57	n/a	n/a	47.37	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-13	0.42	n/a	2/1/2023	0.09J	No	57	n/a	n/a	47.37	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-14	0.42	n/a	2/1/2023	0.067J	No	57	n/a	n/a	47.37	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-15	0.42	n/a	2/2/2023	0.065J	No	57	n/a	n/a	47.37	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-17	0.42	n/a	2/6/2023	0.096J	No	57	n/a	n/a	47.37	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-19	0.42	n/a	2/6/2023	0.22	No	57	n/a	n/a	47.37	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2

# Interwell Prediction Limit - All Results

Plant McDonough    Client: Southern Company    Data: McDonough AP    Printed 4/17/2023, 9:08 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg	Mear	Std.	Dev%	NDs	ND Adj.	Transform	Alpha	Method
Fluoride, total (mg/L)	DGWC-2	0.42	n/a	2/6/2023	0.072J	No	57	n/a	n/a	47.37	n/a	n/a	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
<b>Fluoride, total (mg/L)</b>	<b>DGWC-20</b>	<b>0.42</b>	<b>n/a</b>	<b>2/7/2023</b>	<b>1.1</b>	<b>Yes</b>	<b>57</b>	<b>n/a</b>	<b>n/a</b>	<b>47.37</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0005663</b>	<b>NP Inter (normality) 1 of 2</b>
Fluoride, total (mg/L)	DGWC-21	0.42	n/a	2/7/2023	0.059J	No	57	n/a	n/a	47.37	n/a	n/a	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-22	0.42	n/a	2/6/2023	0.057J	No	57	n/a	n/a	47.37	n/a	n/a	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-23	0.42	n/a	2/6/2023	0.076J	No	57	n/a	n/a	47.37	n/a	n/a	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-4	0.42	n/a	2/3/2023	0.096J	No	57	n/a	n/a	47.37	n/a	n/a	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-42	0.42	n/a	2/1/2023	0.1ND	No	57	n/a	n/a	47.37	n/a	n/a	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
<b>Fluoride, total (mg/L)</b>	<b>DGWC-47</b>	<b>0.42</b>	<b>n/a</b>	<b>2/3/2023</b>	<b>0.45</b>	<b>Yes</b>	<b>57</b>	<b>n/a</b>	<b>n/a</b>	<b>47.37</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0005663</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Fluoride, total (mg/L)</b>	<b>DGWC-48</b>	<b>0.42</b>	<b>n/a</b>	<b>2/3/2023</b>	<b>0.48</b>	<b>Yes</b>	<b>57</b>	<b>n/a</b>	<b>n/a</b>	<b>47.37</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0005663</b>	<b>NP Inter (normality) 1 of 2</b>
Fluoride, total (mg/L)	DGWC-5	0.42	n/a	2/7/2023	0.22	No	57	n/a	n/a	47.37	n/a	n/a	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-8	0.42	n/a	2/7/2023	0.13	No	57	n/a	n/a	47.37	n/a	n/a	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
<b>Fluoride, total (mg/L)</b>	<b>DGWC-9</b>	<b>0.42</b>	<b>n/a</b>	<b>2/3/2023</b>	<b>0.9</b>	<b>Yes</b>	<b>57</b>	<b>n/a</b>	<b>n/a</b>	<b>47.37</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0005663</b>	<b>NP Inter (normality) 1 of 2</b>
pH, Field (SU)	DGWC-10	6.69	5.43	2/2/2023	4.67	Yes	59	n/a	n/a	0	n/a	n/a	n/a	n/a	0.001051	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-11	6.69	5.43	2/6/2023	5.45	No	59	n/a	n/a	0	n/a	n/a	n/a	n/a	0.001051	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-12	6.69	5.43	2/6/2023	5.9	No	59	n/a	n/a	0	n/a	n/a	n/a	n/a	0.001051	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-13	6.69	5.43	2/1/2023	5.54	No	59	n/a	n/a	0	n/a	n/a	n/a	n/a	0.001051	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-14	6.69	5.43	2/1/2023	5.87	No	59	n/a	n/a	0	n/a	n/a	n/a	n/a	0.001051	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-15	6.69	5.43	2/2/2023	5.86	No	59	n/a	n/a	0	n/a	n/a	n/a	n/a	0.001051	NP Inter (normality) 1 of 2
<b>pH, Field (SU)</b>	<b>DGWC-17</b>	<b>6.69</b>	<b>5.43</b>	<b>2/6/2023</b>	<b>5.13</b>	<b>Yes</b>	<b>59</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>0.001051</b>	<b>NP Inter (normality) 1 of 2</b>
<b>pH, Field (SU)</b>	<b>DGWC-19</b>	<b>6.69</b>	<b>5.43</b>	<b>2/6/2023</b>	<b>4.82</b>	<b>Yes</b>	<b>59</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>0.001051</b>	<b>NP Inter (normality) 1 of 2</b>
<b>pH, Field (SU)</b>	<b>DGWC-2</b>	<b>6.69</b>	<b>5.43</b>	<b>2/6/2023</b>	<b>5.17</b>	<b>Yes</b>	<b>59</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>0.001051</b>	<b>NP Inter (normality) 1 of 2</b>
<b>pH, Field (SU)</b>	<b>DGWC-20</b>	<b>6.69</b>	<b>5.43</b>	<b>2/7/2023</b>	<b>4.33</b>	<b>Yes</b>	<b>59</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>0.001051</b>	<b>NP Inter (normality) 1 of 2</b>
pH, Field (SU)	DGWC-21	6.69	5.43	2/7/2023	5.7	No	59	n/a	n/a	0	n/a	n/a	n/a	n/a	0.001051	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-22	6.69	5.43	2/6/2023	5.84	No	59	n/a	n/a	0	n/a	n/a	n/a	n/a	0.001051	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-23	6.69	5.43	2/6/2023	5.97	No	59	n/a	n/a	0	n/a	n/a	n/a	n/a	0.001051	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-4	6.69	5.43	2/3/2023	5.77	No	59	n/a	n/a	0	n/a	n/a	n/a	n/a	0.001051	NP Inter (normality) 1 of 2
<b>pH, Field (SU)</b>	<b>DGWC-42</b>	<b>6.69</b>	<b>5.43</b>	<b>2/1/2023</b>	<b>5.17</b>	<b>Yes</b>	<b>59</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>0.001051</b>	<b>NP Inter (normality) 1 of 2</b>
<b>pH, Field (SU)</b>	<b>DGWC-47</b>	<b>6.69</b>	<b>5.43</b>	<b>2/3/2023</b>	<b>3.88</b>	<b>Yes</b>	<b>59</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>0.001051</b>	<b>NP Inter (normality) 1 of 2</b>
<b>pH, Field (SU)</b>	<b>DGWC-48</b>	<b>6.69</b>	<b>5.43</b>	<b>2/3/2023</b>	<b>4.2</b>	<b>Yes</b>	<b>59</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>0.001051</b>	<b>NP Inter (normality) 1 of 2</b>
<b>pH, Field (SU)</b>	<b>DGWC-5</b>	<b>6.69</b>	<b>5.43</b>	<b>2/7/2023</b>	<b>4.89</b>	<b>Yes</b>	<b>59</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>0.001051</b>	<b>NP Inter (normality) 1 of 2</b>
<b>pH, Field (SU)</b>	<b>DGWC-8</b>	<b>6.69</b>	<b>5.43</b>	<b>2/7/2023</b>	<b>5.23</b>	<b>Yes</b>	<b>59</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>0.001051</b>	<b>NP Inter (normality) 1 of 2</b>
<b>pH, Field (SU)</b>	<b>DGWC-9</b>	<b>6.69</b>	<b>5.43</b>	<b>2/3/2023</b>	<b>4.02</b>	<b>Yes</b>	<b>59</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>0.001051</b>	<b>NP Inter (normality) 1 of 2</b>
Sulfate as SO4 (mg/L)	DGWC-10	37.04	n/a	2/2/2023	235	Yes	52	1.694	0.7439	15.38	Kaplan-Meier	x^(1/3)	n/a	n/a	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-11	37.04	n/a	2/6/2023	273	Yes	52	1.694	0.7439	15.38	Kaplan-Meier	x^(1/3)	n/a	n/a	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-12	37.04	n/a	2/6/2023	142	Yes	52	1.694	0.7439	15.38	Kaplan-Meier	x^(1/3)	n/a	n/a	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-13	37.04	n/a	2/1/2023	97.5	Yes	52	1.694	0.7439	15.38	Kaplan-Meier	x^(1/3)	n/a	n/a	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-14	37.04	n/a	2/1/2023	45.9	Yes	52	1.694	0.7439	15.38	Kaplan-Meier	x^(1/3)	n/a	n/a	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-15	37.04	n/a	2/2/2023	137	Yes	52	1.694	0.7439	15.38	Kaplan-Meier	x^(1/3)	n/a	n/a	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-17	37.04	n/a	2/6/2023	262	Yes	52	1.694	0.7439	15.38	Kaplan-Meier	x^(1/3)	n/a	n/a	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-19	37.04	n/a	2/6/2023	379	Yes	52	1.694	0.7439	15.38	Kaplan-Meier	x^(1/3)	n/a	n/a	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-2	37.04	n/a	2/6/2023	96.4	Yes	52	1.694	0.7439	15.38	Kaplan-Meier	x^(1/3)	n/a	n/a	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-20	37.04	n/a	2/7/2023	517	Yes	52	1.694	0.7439	15.38	Kaplan-Meier	x^(1/3)	n/a	n/a	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-21	37.04	n/a	2/7/2023	285	Yes	52	1.694	0.7439	15.38	Kaplan-Meier	x^(1/3)	n/a	n/a	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-22	37.04	n/a	2/6/2023	235	Yes	52	1.694	0.7439	15.38	Kaplan-Meier	x^(1/3)	n/a	n/a	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-23	37.04	n/a	2/6/2023	262	Yes	52	1.694	0.7439	15.38	Kaplan-Meier	x^(1/3)	n/a	n/a	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-4	37.04	n/a	2/3/2023	949	Yes	52	1.694	0.7439	15.38	Kaplan-Meier	x^(1/3)	n/a	n/a	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-42	37.04	n/a	2/1/2023	313	Yes	52	1.694	0.7439	15.38	Kaplan-Meier	x^(1/3)	n/a	n/a	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-47	37.04	n/a	2/3/2023	138	Yes	52	1.694	0.7439	15.38	Kaplan-Meier	x^(1/3)	n/a	n/a	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-48	37.04	n/a	2/3/2023	301	Yes	52	1.694	0.7439	15.38	Kaplan-Meier	x^(1/3)	n/a	n/a	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-5	37.04	n/a	2/7/2023	577	Yes	52	1.694	0.7439	15.38	Kaplan-Meier	x^(1/3)	n/a	n/a	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-8	37.04	n/a	2/7/2023	118	Yes	52	1.694	0.7439	15.38	Kaplan-Meier	x^(1/3)	n/a	n/a	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-9	37.04	n/a	2/3/2023	277	Yes	52	1.694	0.7439	15.38	Kaplan-Meier	x^(1/3)	n/a	n/a	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-10	268.1	n/a	2/2/2023	390	Yes	51	9.894	2.938	0	None	sqrt(x)	n/a	n/a	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-11	268.1	n/a	2/6/2023	481	Yes	51	9.894	2.938	0	None	sqrt(x)	n/a	n/a	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-12	268.1	n/a	2/6/2023	251	No	51	9.894	2.938	0	None	sqrt(x)	n/a	n/a	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-13	268.1	n/a	2/1/2023	216	No	51	9.894	2.938	0	None	sqrt(x)	n/a	n/a	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-14	268.1	n/a	2/1/2023	116	No	51	9.894	2.938	0	None	sqrt(x)	n/a	n/a	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-15	268.1	n/a	2/2/2023	288	Yes	51	9.894	2.938	0	None	sqrt(x)	n/a	n/a	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-17	268.1	n/a	2/6/2023	403	Yes	51	9.894	2.938	0	None	sqrt(x)	n/a	n/a	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-19	268.1	n/a	2/6/2023	600	Yes	51	9.894	2.938	0	None	sqrt(x)	n/a	n/a	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-2	268.1	n/a	2/6/2023	226	No	51	9.894	2.938	0	None	sqrt(x)	n/a	n/a	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-20	268.1	n/a	2/7/2023	848	Yes	51	9.894	2.938	0	None	sqrt(x)	n/a	n/a	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-21	268.1	n/a	2/7/2023	498	Yes	51	9.894	2.938	0	None	sqrt(x)	n/a	n/a	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (																

# Interwell Prediction Limit - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/17/2023, 9:08 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mear	Std. Dev	%NDs	ND Adj.	Transform	Alpha	Method
Total Dissolved Solids [TDS] (mg/L)	DGWC-48	268.1	n/a	2/3/2023	527	Yes	51	9.894	2.938	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-5	268.1	n/a	2/7/2023	939	Yes	51	9.894	2.938	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-8	268.1	n/a	2/7/2023	223	No	51	9.894	2.938	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-9	268.1	n/a	2/3/2023	437	Yes	51	9.894	2.938	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2

# Appendix III Trend Test - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/17/2023, 9:06 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	DGWC-10	-0.6211	-96	-58	Yes	16	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-11	0.09247	98	58	Yes	16	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-12	-1.307	-106	-68	Yes	18	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-13	-0.058	-60	-58	Yes	16	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-17	0.03144	66	63	Yes	17	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-19	-0.1625	-76	-63	Yes	17	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-2	-0.1965	-130	-63	Yes	17	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-20	-0.6003	-100	-63	Yes	17	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-4	0.2297	72	58	Yes	16	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-47	-0.02938	-111	-63	Yes	17	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-48	-0.06191	-100	-63	Yes	17	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-8	-0.3367	-107	-58	Yes	16	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-9	-0.2386	-113	-63	Yes	17	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWA-53 (bg)	-3.645	-92	-63	Yes	17	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-11	3.864	80	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-19	6.285	117	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-21	1.923	76	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-23	2.652	75	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-4	16.89	78	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-48	-6.518	-114	-63	Yes	17	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-5	7.382	80	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-9	-5.367	-68	-63	Yes	17	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWA-53 (bg)	-0.1584	-92	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-15	0.4002	65	63	Yes	17	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-19	-3.8	-114	-63	Yes	17	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-20	2.211	115	63	Yes	17	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-21	-0.9889	-104	-63	Yes	17	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-22	-2.105	-109	-63	Yes	17	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-23	-0.8411	-111	-63	Yes	17	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-4	-3.331	-130	-63	Yes	17	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-42	-2.748	-112	-63	Yes	17	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-5	0.2628	60	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-9	0.9651	85	63	Yes	17	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWC-47	-0.1489	-101	-74	Yes	19	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWC-48	-0.1513	-99	-74	Yes	19	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-19	0.03563	84	74	Yes	19	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-2	0.04562	78	74	Yes	19	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-20	-0.02556	-72	-68	Yes	18	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-47	-0.1608	-86	-74	Yes	19	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-5	0.07246	83	74	Yes	19	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-9	-0.02086	-104	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWA-71 (bg)	-0.9093	-96	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-10	-28.4	-65	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-12	-40.94	-85	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-13	-10.01	-66	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-15	-8.166	-96	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-19	19.26	91	63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-2	-41.9	-128	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-20	-42.49	-84	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-42	-11.65	-73	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-47	-39.19	-103	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-48	-50.27	-113	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-8	-61.83	-113	-58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWA-53 (bg)	-20.92	-95	-63	Yes	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-10	-34.77	-73	-63	Yes	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-11	25.35	78	58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-19	32.5	93	63	Yes	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-20	-52.53	-90	-63	Yes	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-4	76.75	84	63	Yes	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-48	-54.53	-115	-63	Yes	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-5	46.69	96	58	Yes	16	0	n/a	n/a	0.01	NP



# Appendix III Trend Test - All Results

Plant McDonough    Client: Southern Company    Data: McDonough AP    Printed 4/17/2023, 9:06 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
<b>pH, Field (SU)</b>	<b>DGWC-19</b>	<b>0.03563</b>	<b>84</b>	<b>74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>pH, Field (SU)</b>	<b>DGWC-2</b>	<b>0.04562</b>	<b>78</b>	<b>74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>pH, Field (SU)</b>	<b>DGWC-20</b>	<b>-0.02556</b>	<b>-72</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
pH, Field (SU)	DGWC-42	-0.02876	-64	-74	No	19	0	n/a	n/a	0.01	NP
<b>pH, Field (SU)</b>	<b>DGWC-47</b>	<b>-0.1608</b>	<b>-86</b>	<b>-74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
pH, Field (SU)	DGWC-48	-0.02866	-51	-74	No	19	0	n/a	n/a	0.01	NP
<b>pH, Field (SU)</b>	<b>DGWC-5</b>	<b>0.07246</b>	<b>83</b>	<b>74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
pH, Field (SU)	DGWC-8	0	3	74	No	19	0	n/a	n/a	0.01	NP
<b>pH, Field (SU)</b>	<b>DGWC-9</b>	<b>-0.02086</b>	<b>-104</b>	<b>-74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	DGWA-53 (bg)	-0.5457	-29	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWA-70A (bg)	0	-25	-63	No	17	47.06	n/a	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWA-71 (bg)</b>	<b>-0.9093</b>	<b>-96</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-10</b>	<b>-28.4</b>	<b>-65</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	DGWC-11	11.63	56	58	No	16	0	n/a	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-12</b>	<b>-40.94</b>	<b>-85</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-13</b>	<b>-10.01</b>	<b>-66</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	DGWC-14	0.06231	6	58	No	16	0	n/a	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-15</b>	<b>-8.166</b>	<b>-96</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	DGWC-17	1.393	14	63	No	17	0	n/a	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-19</b>	<b>19.26</b>	<b>91</b>	<b>63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-2</b>	<b>-41.9</b>	<b>-128</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-20</b>	<b>-42.49</b>	<b>-84</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	DGWC-21	-5.15	-56	-63	No	17	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-22	-6.488	-29	-63	No	17	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-23	1.375	22	63	No	17	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-4	29.26	56	63	No	17	0	n/a	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-42</b>	<b>-11.65</b>	<b>-73</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-47</b>	<b>-39.19</b>	<b>-103</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-48</b>	<b>-50.27</b>	<b>-113</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	DGWC-5	8.175	22	58	No	16	0	n/a	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-8</b>	<b>-61.83</b>	<b>-113</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	DGWC-9	-10.15	-42	-63	No	17	0	n/a	n/a	0.01	NP
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWA-53 (bg)</b>	<b>-20.92</b>	<b>-95</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids [TDS] (mg/L)	DGWA-70A (bg)	0.1124	4	63	No	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWA-71 (bg)	-2.859	-36	-63	No	17	0	n/a	n/a	0.01	NP
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-10</b>	<b>-34.77</b>	<b>-73</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-11</b>	<b>25.35</b>	<b>78</b>	<b>58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids [TDS] (mg/L)	DGWC-15	-2.265	-14	-58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-17	9.024	56	63	No	17	0	n/a	n/a	0.01	NP
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-19</b>	<b>32.5</b>	<b>93</b>	<b>63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-20</b>	<b>-52.53</b>	<b>-90</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids [TDS] (mg/L)	DGWC-21	-1.37	-6	-63	No	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-22	-6.728	-63	-63	No	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-23	5.203	37	63	No	17	0	n/a	n/a	0.01	NP
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-4</b>	<b>76.75</b>	<b>84</b>	<b>63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids [TDS] (mg/L)	DGWC-42	-18.61	-51	-63	No	17	0	n/a	n/a	0.01	NP
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-48</b>	<b>-54.53</b>	<b>-115</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-5</b>	<b>46.69</b>	<b>96</b>	<b>58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids [TDS] (mg/L)	DGWC-9	-1.745	-5	-63	No	17	0	n/a	n/a	0.01	NP

# Upper Tolerance Limit Summary Table

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/17/2023, 9:10 AM

Constituent	Well	Upper Lim.	Date	Observ.	Sig.	Bg.N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.003	n/a	n/a	n/a	53	83.02	n/a	0.06597	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.0054	n/a	n/a	n/a	53	73.58	n/a	0.06597	NP Inter(normality)
Barium (mg/L)	n/a	0.19	n/a	n/a	n/a	53	0	n/a	0.06597	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0009	n/a	n/a	n/a	54	55.56	n/a	0.06267	NP Inter(normality)
Cadmium (mg/L)	n/a	0.0005	n/a	n/a	n/a	53	92.45	n/a	0.06597	NP Inter(NDs)
Chromium (mg/L)	n/a	0.005	n/a	n/a	n/a	52	67.31	n/a	0.06944	NP Inter(normality)
Cobalt (mg/L)	n/a	0.0322	n/a	n/a	n/a	53	41.51	n/a	0.06597	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	n/a	5.008	n/a	n/a	n/a	55	0	x^(1/3)	0.05	Inter
Fluoride, total (mg/L)	n/a	0.42	n/a	n/a	n/a	57	47.37	n/a	0.05373	NP Inter(normality)
Lead (mg/L)	n/a	0.001	n/a	n/a	n/a	53	83.02	n/a	0.06597	NP Inter(NDs)
Lithium (mg/L)	n/a	0.03	n/a	n/a	n/a	53	35.85	n/a	0.06597	NP Inter(normality)
Mercury (mg/L)	n/a	0.0002	n/a	n/a	n/a	53	84.91	n/a	0.06597	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.0409	n/a	n/a	n/a	53	64.15	n/a	0.06597	NP Inter(normality)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	53	100	n/a	0.06597	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	53	96.23	n/a	0.06597	NP Inter(NDs)

<b>PLANT MCDONOUGH ASH POND 2, 3, 4 GWPS TABLE</b>				
<b>Constituent Name</b>	<b>MCL</b>	<b>CCR-Rule Specified</b>	<b>Background Limit</b>	<b>GWPS</b>
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		5.01	5.01
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 5/4/2023, 3:01 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	DGWC-9	0.02771	0.01603	0.01	Yes	18	0.02187	0.009656	5.556	None	No	0.01	Param.
Beryllium (mg/L)	B-92	0.02106	0.01394	0.004	Yes	6	0.0175	0.002588	0	None	No	0.01	Param.
Beryllium (mg/L)	B-93	0.01711	0.01342	0.004	Yes	8	0.01486	0.003348	0	None	x^5	0.01	Param.
Beryllium (mg/L)	DGWC-10	0.008872	0.005975	0.004	Yes	17	0.007424	0.002311	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-47	0.01224	0.009073	0.004	Yes	18	0.01066	0.002616	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-48	0.008902	0.007309	0.004	Yes	18	0.008106	0.001316	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-5	0.008777	0.006623	0.004	Yes	17	0.0077	0.001719	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-9	0.005746	0.004909	0.004	Yes	18	0.005328	0.0006918	0	None	No	0.01	Param.
Cobalt (mg/L)	B-104D	0.1977	0.1052	0.032	Yes	7	0.1514	0.03891	0	None	No	0.01	Param.
Cobalt (mg/L)	B-56	0.05613	0.04187	0.032	Yes	7	0.049	0.006	0	None	No	0.01	Param.
Cobalt (mg/L)	B-63	0.05052	0.03385	0.032	Yes	8	0.04219	0.007865	0	None	No	0.01	Param.
Cobalt (mg/L)	B-92	0.08763	0.05587	0.032	Yes	4	0.07175	0.006994	0	None	No	0.01	Param.
Cobalt (mg/L)	B-93	0.06742	0.05983	0.032	Yes	8	0.06363	0.003583	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-10	0.193	0.086	0.032	Yes	17	0.1421	0.05193	0	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-19	0.05344	0.04991	0.032	Yes	18	0.05168	0.002916	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-20	0.7103	0.4987	0.032	Yes	18	0.6146	0.1855	0	None	x^(1/3)	0.01	Param.
Cobalt (mg/L)	DGWC-47	0.3614	0.2442	0.032	Yes	18	0.3028	0.09687	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-48	0.4852	0.3792	0.032	Yes	18	0.4322	0.08761	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-8	0.07835	0.03328	0.032	Yes	17	0.05581	0.03597	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-9	0.2082	0.1546	0.032	Yes	18	0.1814	0.04426	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-104D	16.72	9.597	5.01	Yes	7	13.16	2.999	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-109D	18.47	9.447	5.01	Yes	6	13.96	3.284	0	None	No	0.01	Param.
Lithium (mg/L)	B-120D	0.0896	0.0656	0.04	Yes	5	0.0776	0.007162	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-47	0.07135	0.05601	0.04	Yes	18	0.06368	0.01267	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-48	0.1232	0.104	0.04	Yes	18	0.1136	0.01589	0	None	No	0.01	Param.

# Confidence Intervals - All Results

Plant McDonough    Client: Southern Company    Data: McDonough AP    Printed 5/4/2023, 3:01 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	7	0.002571	0.000741	71.43	None	No	0.008	NP (NDs)
Antimony (mg/L)	B-101D	0.001784	0.0002715	0.006	No	6	0.001685	0.001131	33.33	Kaplan-Meier	No	0.01	Param.
Antimony (mg/L)	B-102D	0.003	0.0016	0.006	No	7	0.0028	0.0005292	85.71	Kaplan-Meier	No	0.008	NP (NDs)
Antimony (mg/L)	B-104D	0.003	0.00048	0.006	No	7	0.00172	0.001207	42.86	None	No	0.008	NP (normality)
Antimony (mg/L)	B-106D	0.003	0.00048	0.006	No	6	0.00258	0.001029	83.33	None	No	0.0155	NP (NDs)
Antimony (mg/L)	B-109D	0.004	0.00042	0.006	No	6	0.002377	0.001414	50	None	No	0.0155	NP (selected)
Antimony (mg/L)	B-111D	0.003	0.0006	0.006	No	7	0.002657	0.0009071	85.71	None	No	0.008	NP (NDs)
Antimony (mg/L)	B-120D	0.003	0.00029	0.006	No	5	0.002458	0.001212	80	None	No	0.031	NP (NDs)
Antimony (mg/L)	B-56	0.003	0.0011	0.006	No	7	0.002729	0.0007181	85.71	None	No	0.008	NP (NDs)
Antimony (mg/L)	B-62	0.003	0.003	0.006	No	10	0.002746	0.0008032	90	None	No	0.011	NP (NDs)
Antimony (mg/L)	B-63	0.003	0.00066	0.006	No	7	0.002666	0.0008844	85.71	None	No	0.008	NP (NDs)
Antimony (mg/L)	B-77	0.003	0.00036	0.006	No	9	0.002158	0.001265	66.67	None	No	0.002	NP (NDs)
Antimony (mg/L)	B-93	0.003	0.00096	0.006	No	7	0.002266	0.0009307	57.14	None	No	0.008	NP (NDs)
Antimony (mg/L)	B-98	0.003	0.001	0.006	No	4	0.0025	0.001	75	None	No	0.0625	NP (NDs)
Antimony (mg/L)	DGWC-10	0.003	0.0021	0.006	No	17	0.002947	0.0002183	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-12	0.003	0.0003	0.006	No	19	0.002858	0.0006194	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-14	0.003	0.0011	0.006	No	18	0.002783	0.0006308	88.89	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-15	0.003	0.00073	0.006	No	18	0.002726	0.0008017	88.89	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-17	0.003	0.00045	0.006	No	18	0.002858	0.000601	94.44	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-19	0.003	0.00036	0.006	No	18	0.002853	0.0006223	94.44	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-2	0.003	0.0006	0.006	No	18	0.002867	0.0005657	94.44	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-21	0.003	0.0013	0.006	No	18	0.002906	0.0004007	94.44	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-23	0.003	0.0007	0.006	No	18	0.002872	0.0005421	94.44	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-4	0.003	0.0008	0.006	No	17	0.002581	0.0009356	82.35	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-47	0.003	0.0012	0.006	No	18	0.0029	0.0004243	94.44	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-48	0.003	0.0018	0.006	No	18	0.002788	0.0006618	88.89	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-5	0.003	0.0015	0.006	No	17	0.002754	0.0007248	88.24	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-8	0.003	0.00046	0.006	No	17	0.002851	0.000616	94.12	None	No	0.01	NP (NDs)
Arsenic (mg/L)	B-101D	0.005	0.0017	0.01	No	6	0.00445	0.001347	83.33	None	No	0.0155	NP (NDs)
Arsenic (mg/L)	B-104D	0.005	0.0019	0.01	No	7	0.003986	0.001348	57.14	None	No	0.008	NP (NDs)
Arsenic (mg/L)	B-109D	0.005	0.0026	0.01	No	6	0.0046	0.0009798	83.33	None	No	0.0155	NP (NDs)
Arsenic (mg/L)	B-111D	0.005	0.0022	0.01	No	7	0.003914	0.001372	57.14	None	No	0.008	NP (NDs)
Arsenic (mg/L)	B-120D	0.005	0.0016	0.01	No	5	0.00432	0.001521	80	None	No	0.031	NP (NDs)
Arsenic (mg/L)	B-56	0.004889	0.00254	0.01	No	7	0.003714	0.000989	14.29	None	No	0.01	Param.
Arsenic (mg/L)	B-62	0.005	0.005	0.01	No	10	0.00483	0.0005376	90	None	No	0.011	NP (NDs)
Arsenic (mg/L)	B-63	0.005	0.0022	0.01	No	7	0.0046	0.001058	85.71	None	No	0.008	NP (NDs)
Arsenic (mg/L)	B-77	0.005	0.002	0.01	No	9	0.0036	0.00137	44.44	None	No	0.002	NP (normality)
Arsenic (mg/L)	B-82	0.005	0.003	0.01	No	9	0.004667	0.0007071	77.78	None	No	0.002	NP (NDs)
Arsenic (mg/L)	B-83	0.005	0.0014	0.01	No	8	0.00455	0.001273	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	B-92	0.002721	0.0006126	0.01	No	4	0.0025	0.00173	25	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	B-93	0.002918	0.001482	0.01	No	7	0.0034	0.001576	42.86	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	B-97	0.005	0.0014	0.01	No	4	0.0041	0.0018	75	Kaplan-Meier	No	0.0625	NP (NDs)
Arsenic (mg/L)	DGWC-10	0.00646	0.003329	0.01	No	17	0.004894	0.002498	5.882	None	No	0.01	Param.
Arsenic (mg/L)	DGWC-12	0.005	0.00063	0.01	No	19	0.004538	0.001383	89.47	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-14	0.005	0.00039	0.01	No	18	0.004744	0.001087	94.44	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-15	0.005	0.0013	0.01	No	18	0.004308	0.001598	83.33	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-17	0.005	0.0011	0.01	No	18	0.003463	0.001991	61.11	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-19	0.0019	0.0009681	0.01	No	18	0.002564	0.001677	27.78	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	DGWC-2	0.005	0.0025	0.01	No	18	0.004488	0.00121	83.33	Kaplan-Meier	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-20	0.01713	0.009007	0.01	No	18	0.01307	0.00671	0	None	No	0.01	Param.
Arsenic (mg/L)	DGWC-22	0.005	0.001	0.01	No	18	0.004778	0.0009428	94.44	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-4	0.005	0.0011	0.01	No	17	0.003994	0.001873	76.47	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-42	0.005	0.0011	0.01	No	18	0.004544	0.001328	88.89	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-47	0.002645	0.001412	0.01	No	18	0.002944	0.001573	27.78	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	DGWC-48	0.005	0.0012	0.01	No	18	0.003505	0.001945	61.11	Kaplan-Meier	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-5	0.007914	0.002606	0.01	No	17	0.007206	0.009359	11.76	None	ln(x)	0.01	Param.

# Confidence Intervals - All Results

Plant McDonough    Client: Southern Company    Data: McDonough AP    Printed 5/4/2023, 3:01 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	DGWC-8	0.005	0.0015	0.01	No	17	0.003921	0.001736	70.59	None	No	0.01	NP (NDs)
<b>Arsenic (mg/L)</b>	<b>DGWC-9</b>	<b>0.02771</b>	<b>0.01603</b>	<b>0.01</b>	<b>Yes</b>	<b>18</b>	<b>0.02187</b>	<b>0.009656</b>	<b>5.556</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Barium (mg/L)	B-100	0.098	0.015	2	No	7	0.03171	0.02935	0	None	No	0.008	NP (normality)
Barium (mg/L)	B-101D	0.07917	0.05049	2	No	6	0.06483	0.01044	0	None	No	0.01	Param.
Barium (mg/L)	B-102D	0.02331	0.01926	2	No	7	0.02129	0.001704	0	None	No	0.01	Param.
Barium (mg/L)	B-104D	0.02505	0.01837	2	No	7	0.02171	0.002812	0	None	No	0.01	Param.
Barium (mg/L)	B-106D	0.02223	0.01977	2	No	6	0.021	0.0008944	0	None	No	0.01	Param.
Barium (mg/L)	B-107D	0.1338	0.04453	2	No	6	0.08917	0.03249	0	None	No	0.01	Param.
Barium (mg/L)	B-108D	0.06512	0.05054	2	No	6	0.05783	0.005307	0	None	No	0.01	Param.
Barium (mg/L)	B-109D	0.0626	0.03436	2	No	6	0.0495	0.01415	0	None	x^3	0.01	Param.
Barium (mg/L)	B-111D	0.043	0.027	2	No	7	0.03271	0.006726	0	None	No	0.008	NP (normality)
Barium (mg/L)	B-120D	0.04436	0.01324	2	No	5	0.0288	0.009284	0	None	No	0.01	Param.
Barium (mg/L)	B-56	0.02985	0.02587	2	No	7	0.02786	0.001676	0	None	No	0.01	Param.
Barium (mg/L)	B-62	0.0255	0.0193	2	No	10	0.0224	0.003471	0	None	No	0.01	Param.
Barium (mg/L)	B-63	0.04199	0.01784	2	No	7	0.02914	0.01263	0	None	ln(x)	0.01	Param.
Barium (mg/L)	B-66	0.02191	0.01609	2	No	7	0.019	0.002449	0	None	No	0.01	Param.
Barium (mg/L)	B-77	0.1224	0.09429	2	No	9	0.1083	0.01454	0	None	No	0.01	Param.
Barium (mg/L)	B-82	0.02898	0.02077	2	No	8	0.02488	0.003871	0	None	No	0.01	Param.
Barium (mg/L)	B-83	0.056	0.024	2	No	8	0.0315	0.01058	0	None	No	0.004	NP (normality)
Barium (mg/L)	B-88	0.02216	0.0157	2	No	7	0.01886	0.002734	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	B-92	0.01792	0.01358	2	No	4	0.01575	0.0009574	0	None	No	0.01	Param.
Barium (mg/L)	B-93	0.01937	0.01434	2	No	7	0.01686	0.002116	0	None	No	0.01	Param.
Barium (mg/L)	B-97	0.021	0.02	2	No	4	0.02025	0.0005	0	None	No	0.0625	NP (normality)
Barium (mg/L)	B-98	0.092	0.035	2	No	4	0.0625	0.02869	0	None	No	0.0625	NP (selected)
Barium (mg/L)	DGWC-10	0.0283	0.02214	2	No	17	0.02522	0.004916	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-11	0.06429	0.05247	2	No	17	0.05838	0.009432	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-12	0.03562	0.02551	2	No	19	0.03094	0.009145	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	DGWC-13	0.03205	0.02695	2	No	17	0.02854	0.006817	5.882	None	x^3	0.01	Param.
Barium (mg/L)	DGWC-14	0.06251	0.05833	2	No	18	0.06042	0.003451	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-15	0.04944	0.0433	2	No	18	0.04637	0.00507	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-17	0.05326	0.03854	2	No	18	0.0459	0.01217	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-19	0.02559	0.0224	2	No	18	0.02399	0.002629	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-2	0.023	0.0206	2	No	18	0.02178	0.001114	0	None	No	0.01	NP (normality)
Barium (mg/L)	DGWC-20	0.01583	0.01012	2	No	18	0.01323	0.004702	5.556	None	sqrt(x)	0.01	Param.
Barium (mg/L)	DGWC-21	0.027	0.024	2	No	18	0.02563	0.001559	0	None	No	0.01	NP (normality)
Barium (mg/L)	DGWC-22	0.03655	0.03095	2	No	18	0.03375	0.004633	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-23	0.0234	0.01897	2	No	18	0.02128	0.003837	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	DGWC-4	0.03572	0.03247	2	No	17	0.03409	0.002591	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-42	0.01956	0.01589	2	No	18	0.0178	0.003157	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	DGWC-47	0.01976	0.01645	2	No	18	0.01811	0.002737	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-48	0.0155	0.013	2	No	18	0.01367	0.000943	0	None	No	0.01	NP (normality)
Barium (mg/L)	DGWC-5	0.01836	0.01681	2	No	16	0.01759	0.001194	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-8	0.03577	0.02517	2	No	17	0.03047	0.008452	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-9	0.0166	0.01506	2	No	18	0.01583	0.001275	0	None	No	0.01	Param.
Beryllium (mg/L)	B-100	0.0005817	0.000304	0.004	No	7	0.0004429	0.0001169	14.29	None	No	0.01	Param.
Beryllium (mg/L)	B-101D	0.00007901	0.00005065	0.004	No	6	0.00006483	0.00001032	0	None	No	0.01	Param.
Beryllium (mg/L)	B-102D	0.001346	0.000943	0.004	No	7	0.001144	0.0001695	0	None	No	0.01	Param.
Beryllium (mg/L)	B-104D	0.001585	0.001158	0.004	No	7	0.001371	0.0001799	0	None	No	0.01	Param.
Beryllium (mg/L)	B-106D	0.0001376	0.00009037	0.004	No	6	0.000114	0.0000172	0	None	No	0.01	Param.
Beryllium (mg/L)	B-107D	0.0005	0.00005	0.004	No	6	0.000425	0.0001837	83.33	None	No	0.0155	NP (NDs)
Beryllium (mg/L)	B-109D	0.0005	0.000059	0.004	No	6	0.0001437	0.0001747	16.67	None	No	0.0155	NP (normality)
Beryllium (mg/L)	B-120D	0.001186	0.000782	0.004	No	5	0.000984	0.0001205	0	None	No	0.01	Param.
Beryllium (mg/L)	B-56	0.001296	0.001132	0.004	No	7	0.001214	0.00006901	0	None	No	0.01	Param.
Beryllium (mg/L)	B-62	0.0025	0.00009	0.004	No	11	0.0005516	0.0009635	18.18	None	No	0.006	NP (normality)
Beryllium (mg/L)	B-63	0.0015	0.00028	0.004	No	9	0.0005122	0.0003796	11.11	None	No	0.002	NP (normality)
Beryllium (mg/L)	B-77	0.0005	0.000053	0.004	No	9	0.0002767	0.0002138	44.44	None	No	0.002	NP (normality)

# Confidence Intervals - All Results

Plant McDonough    Client: Southern Company    Data: McDonough AP    Printed 5/4/2023, 3:01 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	B-82	0.001986	0.001289	0.004	No	8	0.001638	0.0003292	0	None	No	0.01	Param.
Beryllium (mg/L)	B-83	0.0005267	0.0002862	0.004	No	8	0.0004038	0.0001319	0	None	ln(x)	0.01	Param.
Beryllium (mg/L)	B-88	0.003353	0.0005465	0.004	No	7	0.001833	0.001455	0	None	sqrt(x)	0.01	Param.
<b>Beryllium (mg/L)</b>	<b>B-92</b>	<b>0.02106</b>	<b>0.01394</b>	<b>0.004</b>	<b>Yes</b>	<b>6</b>	<b>0.0175</b>	<b>0.002588</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Beryllium (mg/L)</b>	<b>B-93</b>	<b>0.01711</b>	<b>0.01342</b>	<b>0.004</b>	<b>Yes</b>	<b>8</b>	<b>0.01486</b>	<b>0.003348</b>	<b>0</b>	<b>None</b>	<b>x^5</b>	<b>0.01</b>	<b>Param.</b>
Beryllium (mg/L)	B-97	0.001888	0.00154	0.004	No	7	0.001714	0.0001464	14.29	None	No	0.01	Param.
Beryllium (mg/L)	B-98	0.00087	0.000062	0.004	No	7	0.0004286	0.0002827	57.14	None	No	0.008	NP (NDs)
<b>Beryllium (mg/L)</b>	<b>DGWC-10</b>	<b>0.008872</b>	<b>0.005975</b>	<b>0.004</b>	<b>Yes</b>	<b>17</b>	<b>0.007424</b>	<b>0.002311</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Beryllium (mg/L)	DGWC-11	0.003	0.00013	0.004	No	17	0.001324	0.001445	41.18	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-12	0.00049	0.00011	0.004	No	19	0.0003726	0.0006498	15.79	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-13	0.003	0.00007	0.004	No	17	0.001623	0.001505	52.94	None	No	0.01	NP (NDs)
Beryllium (mg/L)	DGWC-15	0.003	0.00022	0.004	No	18	0.0005988	0.0006111	88.89	None	No	0.01	NP (NDs)
Beryllium (mg/L)	DGWC-17	0.00066	0.00051	0.004	No	18	0.0006817	0.0003034	11.11	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-19	0.001979	0.001743	0.004	No	18	0.001861	0.0001944	11.11	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-20	0.005237	0.002716	0.004	No	18	0.004139	0.002198	11.11	None	sqrt(x)	0.01	Param.
Beryllium (mg/L)	DGWC-21	0.0002	0.00015	0.004	No	18	0.0003133	0.000433	11.11	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-22	0.00023	0.00014	0.004	No	18	0.0003117	0.0004338	11.11	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-23	0.0005	0.00038	0.004	No	18	0.0005544	0.0003563	11.11	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-4	0.00034	0.00019	0.004	No	17	0.0003818	0.0004264	11.76	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-42	0.00267	0.002107	0.004	No	18	0.002389	0.0004651	5.556	None	No	0.01	Param.
<b>Beryllium (mg/L)</b>	<b>DGWC-47</b>	<b>0.01224</b>	<b>0.009073</b>	<b>0.004</b>	<b>Yes</b>	<b>18</b>	<b>0.01066</b>	<b>0.002616</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Beryllium (mg/L)</b>	<b>DGWC-48</b>	<b>0.008902</b>	<b>0.007309</b>	<b>0.004</b>	<b>Yes</b>	<b>18</b>	<b>0.008106</b>	<b>0.001316</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Beryllium (mg/L)</b>	<b>DGWC-5</b>	<b>0.008777</b>	<b>0.006623</b>	<b>0.004</b>	<b>Yes</b>	<b>17</b>	<b>0.0077</b>	<b>0.001719</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Beryllium (mg/L)	DGWC-8	0.002658	0.001367	0.004	No	17	0.002087	0.001127	5.882	None	sqrt(x)	0.01	Param.
<b>Beryllium (mg/L)</b>	<b>DGWC-9</b>	<b>0.005746</b>	<b>0.004909</b>	<b>0.004</b>	<b>Yes</b>	<b>18</b>	<b>0.005328</b>	<b>0.0006918</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cadmium (mg/L)	B-100	0.00059	0.00025	0.005	No	7	0.0003614	0.0001566	14.29	None	No	0.008	NP (normality)
Cadmium (mg/L)	B-101D	0.0005	0.00011	0.005	No	6	0.000435	0.0001592	83.33	None	No	0.0155	NP (NDs)
Cadmium (mg/L)	B-102D	0.0009271	0.00073	0.005	No	7	0.0008286	0.00008295	0	None	No	0.01	Param.
Cadmium (mg/L)	B-106D	0.0002594	0.0001308	0.005	No	6	0.000295	0.0001637	33.33	Kaplan-Meier	sqrt(x)	0.01	Param.
Cadmium (mg/L)	B-120D	0.001225	0.0009273	0.005	No	5	0.001076	0.00008877	0	None	No	0.01	Param.
Cadmium (mg/L)	B-56	0.0003307	0.000235	0.005	No	7	0.0002829	0.0000403	0	None	No	0.01	Param.
Cadmium (mg/L)	B-63	0.0005	0.00014	0.005	No	7	0.0003671	0.0001688	57.14	None	No	0.008	NP (NDs)
Cadmium (mg/L)	B-82	0.0007904	0.0004571	0.005	No	8	0.0006238	0.0001572	0	None	No	0.01	Param.
Cadmium (mg/L)	B-83	0.0003711	0.0002714	0.005	No	8	0.0003213	0.00004704	0	None	No	0.01	Param.
Cadmium (mg/L)	B-88	0.005092	0.0002277	0.005	No	7	0.00266	0.002048	0	None	No	0.01	Param.
Cadmium (mg/L)	B-92	0.001839	0.0005909	0.005	No	4	0.001215	0.0002749	0	None	No	0.01	Param.
Cadmium (mg/L)	B-93	0.0008816	0.0007355	0.005	No	7	0.0008086	0.00006149	0	None	No	0.01	Param.
Cadmium (mg/L)	B-97	0.00063	0.00055	0.005	No	4	0.0005725	0.00003862	0	None	No	0.0625	NP (normality)
Cadmium (mg/L)	B-98	0.0005	0.0003	0.005	No	4	0.0004025	0.0001127	50	None	No	0.0625	NP (normality)
Cadmium (mg/L)	DGWC-10	0.001125	0.0007431	0.005	No	17	0.0009341	0.0003048	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-11	0.0005	0.00015	0.005	No	17	0.0003953	0.0001674	70.59	None	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-12	0.0003235	0.0002141	0.005	No	19	0.0003937	0.0001862	31.58	Kaplan-Meier	x^(1/3)	0.01	Param.
Cadmium (mg/L)	DGWC-13	0.0005	0.0002	0.005	No	17	0.0004576	0.0001214	88.24	Kaplan-Meier	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-15	0.001	0.00013	0.005	No	18	0.0004406	0.0002175	77.78	None	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-17	0.0003	0.00023	0.005	No	18	0.0002928	0.00008365	11.11	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-19	0.000414	0.0003449	0.005	No	18	0.0003794	0.00005713	11.11	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-2	0.0005	0.00014	0.005	No	18	0.0003889	0.000218	44.44	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-20	0.00233	0.001815	0.005	No	18	0.002072	0.0004254	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-21	0.0006158	0.0003591	0.005	No	18	0.0005806	0.000199	16.67	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	DGWC-22	0.0006241	0.0004637	0.005	No	18	0.0005439	0.0001326	11.11	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-23	0.0002881	0.000185	0.005	No	18	0.0002472	0.000104	11.11	None	ln(x)	0.01	Param.
Cadmium (mg/L)	DGWC-4	0.0008388	0.0006271	0.005	No	17	0.0007329	0.000169	11.76	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-42	0.0009002	0.0004679	0.005	No	18	0.0007594	0.0005182	11.11	None	ln(x)	0.01	Param.
Cadmium (mg/L)	DGWC-47	0.00206	0.001273	0.005	No	18	0.001667	0.0006508	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-48	0.0036	0.0026	0.005	No	18	0.003378	0.001566	0	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-5	0.0008412	0.0004882	0.005	No	17	0.0006647	0.0002817	11.76	None	No	0.01	Param.

# Confidence Intervals - All Results

Plant McDonough    Client: Southern Company    Data: McDonough AP    Printed 5/4/2023, 3:01 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cadmium (mg/L)	DGWC-8	0.002406	0.001708	0.005	No	17	0.002057	0.0005563	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-9	0.0006234	0.0005177	0.005	No	18	0.0005706	0.00008734	11.11	None	No	0.01	Param.
Chromium (mg/L)	B-100	0.005	0.00057	0.1	No	7	0.003787	0.002074	71.43	None	No	0.008	NP (NDs)
Chromium (mg/L)	B-101D	0.005	0.0014	0.1	No	6	0.0044	0.00147	83.33	None	No	0.0155	NP (NDs)
Chromium (mg/L)	B-104D	0.005	0.0011	0.1	No	7	0.004443	0.001474	85.71	None	No	0.008	NP (NDs)
Chromium (mg/L)	B-106D	0.005	0.0013	0.1	No	6	0.004383	0.001511	83.33	None	No	0.0155	NP (NDs)
Chromium (mg/L)	B-109D	0.005	0.00061	0.1	No	6	0.004268	0.001792	83.33	None	No	0.0155	NP (NDs)
Chromium (mg/L)	B-56	0.005	0.00059	0.1	No	7	0.003341	0.002086	57.14	None	No	0.008	NP (NDs)
Chromium (mg/L)	B-62	0.005	0.005	0.1	No	10	0.004598	0.001271	90	None	No	0.011	NP (NDs)
Chromium (mg/L)	B-63	0.005	0.00064	0.1	No	7	0.004377	0.001648	85.71	None	No	0.008	NP (NDs)
Chromium (mg/L)	B-77	0.005	0.00068	0.1	No	9	0.003273	0.002088	55.56	None	No	0.002	NP (NDs)
Chromium (mg/L)	B-82	0.005	0.0011	0.1	No	8	0.00405	0.00176	75	None	No	0.004	NP (NDs)
Chromium (mg/L)	B-83	0.004919	0.002056	0.1	No	8	0.003488	0.001351	0	None	No	0.01	Param.
Chromium (mg/L)	B-88	0.005	0.00085	0.1	No	7	0.003421	0.001984	57.14	None	No	0.008	NP (NDs)
Chromium (mg/L)	B-93	0.005	0.00057	0.1	No	7	0.00319	0.002263	57.14	None	No	0.008	NP (NDs)
Chromium (mg/L)	B-98	0.005	0.0013	0.1	No	4	0.003175	0.002108	50	None	No	0.0625	NP (normality)
Chromium (mg/L)	DGWC-10	0.005	0.0008	0.1	No	17	0.002347	0.002025	35.29	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-11	0.005	0.00061	0.1	No	17	0.003964	0.001925	76.47	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-12	0.005	0.00099	0.1	No	19	0.004575	0.001272	89.47	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-13	0.005	0.0009	0.1	No	17	0.003994	0.001871	76.47	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-15	0.01	0.0048	0.1	No	18	0.004519	0.002186	77.78	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-17	0.0033	0.0024	0.1	No	18	0.002972	0.0008101	11.11	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-19	0.0031	0.0023	0.1	No	18	0.003822	0.002857	16.67	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-2	0.005	0.0005	0.1	No	18	0.003509	0.00217	66.67	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-20	0.005	0.0015	0.1	No	18	0.003211	0.002249	33.33	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-21	0.005	0.0006	0.1	No	18	0.003608	0.002052	66.67	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-22	0.005	0.0012	0.1	No	18	0.004789	0.0008957	94.44	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-23	0.005	0.0007	0.1	No	18	0.002656	0.00217	44.44	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-4	0.005	0.0005	0.1	No	17	0.004735	0.001091	94.12	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-42	0.005	0.0008	0.1	No	18	0.003402	0.002091	61.11	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-47	0.005	0.0007	0.1	No	18	0.004761	0.001014	94.44	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-48	0.005	0.0007	0.1	No	18	0.004506	0.00144	88.89	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-5	0.005	0.00045	0.1	No	17	0.004732	0.001104	94.12	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-8	0.005	0.0013	0.1	No	17	0.003675	0.001912	64.71	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-9	0.005	0.00061	0.1	No	18	0.003505	0.002082	55.56	None	No	0.01	NP (NDs)
Cobalt (mg/L)	B-100	0.07642	0.01578	0.032	No	9	0.04583	0.02991	11.11	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	B-101D	0.003612	0.002121	0.032	No	6	0.002867	0.0005428	0	None	No	0.01	Param.
Cobalt (mg/L)	B-102D	0.01493	0.01165	0.032	No	7	0.01329	0.00138	0	None	No	0.01	Param.
<b>Cobalt (mg/L)</b>	<b>B-104D</b>	<b>0.1977</b>	<b>0.1052</b>	<b>0.032</b>	<b>Yes</b>	<b>7</b>	<b>0.1514</b>	<b>0.03891</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	B-106D	0.005	0.00056	0.032	No	6	0.002855	0.002352	50	None	No	0.0155	NP (normality)
Cobalt (mg/L)	B-107D	0.001541	0.0004323	0.032	No	6	0.0009867	0.0004036	0	None	No	0.01	Param.
Cobalt (mg/L)	B-108D	0.0048	0.00061	0.032	No	6	0.001802	0.001531	0	None	No	0.0155	NP (selected)
Cobalt (mg/L)	B-111D	0.005	0.0004	0.032	No	7	0.001827	0.002172	28.57	None	No	0.008	NP (normality)
Cobalt (mg/L)	B-120D	0.017	0.0025	0.032	No	5	0.00644	0.006035	0	None	No	0.031	NP (selected)
<b>Cobalt (mg/L)</b>	<b>B-56</b>	<b>0.05613</b>	<b>0.04187</b>	<b>0.032</b>	<b>Yes</b>	<b>7</b>	<b>0.049</b>	<b>0.006</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	B-62	0.005	0.00031	0.032	No	11	0.004146	0.001899	81.82	None	No	0.006	NP (NDs)
<b>Cobalt (mg/L)</b>	<b>B-63</b>	<b>0.05052</b>	<b>0.03385</b>	<b>0.032</b>	<b>Yes</b>	<b>8</b>	<b>0.04219</b>	<b>0.007865</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	B-66	0.01385	0.006255	0.032	No	8	0.01005	0.003581	12.5	None	No	0.01	Param.
Cobalt (mg/L)	B-77	0.002581	0.0007594	0.032	No	9	0.003156	0.001893	44.44	Kaplan-Meier	sqrt(x)	0.01	Param.
Cobalt (mg/L)	B-82	0.00561	0.001716	0.032	No	9	0.00365	0.002304	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	B-83	0.01753	0.008023	0.032	No	8	0.01278	0.004483	0	None	No	0.01	Param.
Cobalt (mg/L)	B-88	0.022	0.00135	0.032	No	8	0.006831	0.008243	0	None	No	0.004	NP (normality)
<b>Cobalt (mg/L)</b>	<b>B-92</b>	<b>0.08763</b>	<b>0.05587</b>	<b>0.032</b>	<b>Yes</b>	<b>4</b>	<b>0.07175</b>	<b>0.006994</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Cobalt (mg/L)</b>	<b>B-93</b>	<b>0.06742</b>	<b>0.05983</b>	<b>0.032</b>	<b>Yes</b>	<b>8</b>	<b>0.06363</b>	<b>0.003583</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	B-97	0.003443	0.002657	0.032	No	4	0.00305	0.0001732	0	None	No	0.01	Param.
Cobalt (mg/L)	B-98	0.005	0.00063	0.032	No	6	0.004238	0.00177	66.67	None	No	0.0155	NP (NDs)



# Confidence Intervals - All Results

Plant McDonough    Client: Southern Company    Data: McDonough AP    Printed 5/4/2023, 3:01 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
<b>Cobalt (mg/L)</b>	<b>DGWC-10</b>	<b>0.193</b>	<b>0.086</b>	<b>0.032</b>	<b>Yes</b>	<b>17</b>	<b>0.1421</b>	<b>0.05193</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>NP (normality)</b>
Cobalt (mg/L)	DGWC-11	0.01	0.00065	0.032	No	17	0.00409	0.004506	35.29	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-12	0.01142	0.003676	0.032	No	19	0.01008	0.009901	10.53	None	ln(x)	0.01	Param.
Cobalt (mg/L)	DGWC-13	0.005	0.0005	0.032	No	17	0.004193	0.001797	82.35	None	No	0.01	NP (NDs)
Cobalt (mg/L)	DGWC-15	0.0028	0.0016	0.032	No	18	0.00345	0.005464	5.556	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-17	0.02594	0.01838	0.032	No	18	0.02216	0.006248	5.556	None	No	0.01	Param.
<b>Cobalt (mg/L)</b>	<b>DGWC-19</b>	<b>0.05344</b>	<b>0.04991</b>	<b>0.032</b>	<b>Yes</b>	<b>18</b>	<b>0.05168</b>	<b>0.002916</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	DGWC-2	0.02052	0.007091	0.032	No	18	0.01518	0.01187	0	None	sqrt(x)	0.01	Param.
<b>Cobalt (mg/L)</b>	<b>DGWC-20</b>	<b>0.7103</b>	<b>0.4987</b>	<b>0.032</b>	<b>Yes</b>	<b>18</b>	<b>0.6146</b>	<b>0.1855</b>	<b>0</b>	<b>None</b>	<b>x^(1/3)</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	DGWC-21	0.00959	0.00827	0.032	No	18	0.008683	0.001555	11.11	None	x^4	0.01	Param.
Cobalt (mg/L)	DGWC-22	0.009638	0.007428	0.032	No	18	0.008533	0.001827	11.11	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-23	0.005	0.00043	0.032	No	18	0.003011	0.002858	50	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-4	0.002	0.0015	0.032	No	17	0.002135	0.001094	11.76	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-42	0.03593	0.01335	0.032	No	18	0.0268	0.02053	0	None	sqrt(x)	0.01	Param.
<b>Cobalt (mg/L)</b>	<b>DGWC-47</b>	<b>0.3614</b>	<b>0.2442</b>	<b>0.032</b>	<b>Yes</b>	<b>18</b>	<b>0.3028</b>	<b>0.09687</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Cobalt (mg/L)</b>	<b>DGWC-48</b>	<b>0.4852</b>	<b>0.3792</b>	<b>0.032</b>	<b>Yes</b>	<b>18</b>	<b>0.4322</b>	<b>0.08761</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	DGWC-5	0.0351	0.0209	0.032	No	17	0.02731	0.01016	0	None	No	0.01	NP (normality)
<b>Cobalt (mg/L)</b>	<b>DGWC-8</b>	<b>0.07835</b>	<b>0.03328</b>	<b>0.032</b>	<b>Yes</b>	<b>17</b>	<b>0.05581</b>	<b>0.03597</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Cobalt (mg/L)</b>	<b>DGWC-9</b>	<b>0.2082</b>	<b>0.1546</b>	<b>0.032</b>	<b>Yes</b>	<b>18</b>	<b>0.1814</b>	<b>0.04426</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Combined Radium 226 + 228 (pCi/L)	B-100	1.229	0.352	5.01	No	7	0.7906	0.3692	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-101D	2.386	0.6659	5.01	No	6	1.526	0.6261	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-102D	1.74	0.61	5.01	No	7	0.8997	0.4279	0	None	No	0.008	NP (normality)
<b>Combined Radium 226 + 228 (pCi/L)</b>	<b>B-104D</b>	<b>16.72</b>	<b>9.597</b>	<b>5.01</b>	<b>Yes</b>	<b>7</b>	<b>13.16</b>	<b>2.999</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Combined Radium 226 + 228 (pCi/L)	B-106D	0.8891	0.4472	5.01	No	6	0.6682	0.1608	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-107D	1.967	0.2931	5.01	No	6	1.13	0.6091	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-108D	1.842	0.6226	5.01	No	6	1.232	0.4439	0	None	No	0.01	Param.
<b>Combined Radium 226 + 228 (pCi/L)</b>	<b>B-109D</b>	<b>18.47</b>	<b>9.447</b>	<b>5.01</b>	<b>Yes</b>	<b>6</b>	<b>13.96</b>	<b>3.284</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Combined Radium 226 + 228 (pCi/L)	B-111D	10.94	4.356	5.01	No	7	7.646	2.769	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-120D	3.68	1.21	5.01	No	5	2.246	0.9117	0	None	No	0.031	NP (selected)
Combined Radium 226 + 228 (pCi/L)	B-56	1.259	0.7402	5.01	No	7	0.9996	0.2184	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-62	1.913	1.387	5.01	No	9	1.65	0.2725	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-63	2.083	0.772	5.01	No	6	1.428	0.4773	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-66	1.07	0	5.01	No	6	0.677	0.3997	0	None	No	0.0155	NP (selected)
Combined Radium 226 + 228 (pCi/L)	B-77	1.985	0.6539	5.01	No	8	1.294	0.6617	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-82	0.9428	0.4483	5.01	No	7	0.6956	0.2082	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-83	1.034	0.2386	5.01	No	8	0.6364	0.3753	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-88	2.542	0.6599	5.01	No	7	1.601	0.7922	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-92	2.926	0.5936	5.01	No	4	1.76	0.5137	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-93	1.778	0.7603	5.01	No	7	1.269	0.4284	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-97	2.481	0.5295	5.01	No	4	1.505	0.4297	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-98	2.2	0.52	5.01	No	4	1.406	0.8344	0	None	No	0.0625	NP (selected)
Combined Radium 226 + 228 (pCi/L)	DGWC-10	1.453	1.091	5.01	No	18	1.272	0.2998	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-11	1.207	0.6914	5.01	No	18	0.9492	0.4261	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-12	1.164	0.4554	5.01	No	18	0.8742	0.6556	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-13	1.404	0.9276	5.01	No	18	1.166	0.3938	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-14	1.031	0.6375	5.01	No	18	0.8344	0.3254	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-15	1.395	0.5849	5.01	No	18	1.059	0.8093	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-17	0.9861	0.5871	5.01	No	18	0.7866	0.3297	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-19	1.006	0.5402	5.01	No	18	0.7733	0.3852	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-2	1.332	0.8	5.01	No	18	1.066	0.4399	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-20	1.532	0.942	5.01	No	18	1.237	0.4879	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-21	1.04	0.5742	5.01	No	18	0.807	0.3848	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-22	1.278	0.7236	5.01	No	18	1.001	0.4582	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-23	1.425	0.8208	5.01	No	18	1.123	0.4994	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-4	1.664	1.205	5.01	No	18	1.434	0.3787	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-42	1.097	0.6504	5.01	No	18	0.8735	0.3686	0	None	No	0.01	Param.

# Confidence Intervals - All Results

Plant McDonough    Client: Southern Company    Data: McDonough AP    Printed 5/4/2023, 3:01 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)	DGWC-47	2.716	1.697	5.01	No	18	2.206	0.842	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-48	2.302	1.469	5.01	No	18	1.885	0.6879	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-5	1.702	0.9871	5.01	No	18	1.345	0.5909	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-8	0.818	0.5033	5.01	No	18	0.6607	0.2601	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-9	1.38	0.9599	5.01	No	18	1.17	0.3469	0	None	No	0.01	Param.
Fluoride (mg/L)	B-100	0.1	0.052	4	No	7	0.08914	0.01942	71.43	None	No	0.008	NP (NDs)
Fluoride (mg/L)	B-101D	0.11	0.051	4	No	6	0.0775	0.0282	16.67	None	No	0.0155	NP (selected)
Fluoride (mg/L)	B-102D	0.1084	0.06642	4	No	7	0.08743	0.01769	0	None	No	0.01	Param.
Fluoride (mg/L)	B-104D	0.4579	0.2878	4	No	7	0.3729	0.07158	0	None	No	0.01	Param.
Fluoride (mg/L)	B-106D	0.07618	0.04622	4	No	6	0.06767	0.01923	16.67	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	B-107D	0.1	0.053	4	No	6	0.09217	0.01919	83.33	Kaplan-Meier	No	0.0155	NP (NDs)
Fluoride (mg/L)	B-108D	0.1	0.061	4	No	6	0.0935	0.01592	83.33	None	No	0.0155	NP (NDs)
Fluoride (mg/L)	B-109D	0.1703	0.1163	4	No	6	0.1433	0.01966	0	None	No	0.01	Param.
Fluoride (mg/L)	B-111D	0.5184	0.3016	4	No	7	0.4071	0.09517	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	B-120D	0.1	0.052	4	No	5	0.0818	0.02498	60	None	No	0.031	NP (NDs)
Fluoride (mg/L)	B-56	0.2914	0.1223	4	No	7	0.2069	0.07115	0	None	No	0.01	Param.
Fluoride (mg/L)	B-62	0.43	0.093	4	No	9	0.1669	0.1072	0	None	No	0.002	NP (normality)
Fluoride (mg/L)	B-63	0.45	0.12	4	No	6	0.2	0.1257	0	None	No	0.0155	NP (normality)
Fluoride (mg/L)	B-66	0.4448	0.03858	4	No	6	0.2417	0.1478	0	None	No	0.01	Param.
Fluoride (mg/L)	B-77	0.1	0.069	4	No	8	0.09038	0.01265	50	None	No	0.004	NP (normality)
Fluoride (mg/L)	B-82	0.1399	0.04502	4	No	7	0.1024	0.04637	42.86	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	B-83	0.1102	0.05284	4	No	8	0.08975	0.02756	25	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	B-88	0.1	0.054	4	No	7	0.09343	0.01739	85.71	Kaplan-Meier	No	0.008	NP (NDs)
Fluoride (mg/L)	B-92	0.3501	0.1099	4	No	4	0.23	0.05292	0	None	No	0.01	Param.
Fluoride (mg/L)	B-93	0.411	0.3062	4	No	7	0.3586	0.04413	0	None	No	0.01	Param.
Fluoride (mg/L)	B-97	0.1634	0.04806	4	No	4	0.1058	0.02541	0	None	No	0.01	Param.
Fluoride (mg/L)	B-98	0.2476	0.05138	4	No	4	0.1495	0.04322	0	None	No	0.01	Param.
Fluoride (mg/L)	DGWC-10	1.793	1.302	4	No	19	1.548	0.4192	0	None	No	0.01	Param.
Fluoride (mg/L)	DGWC-11	0.1	0.06	4	No	18	0.08167	0.02491	61.11	None	No	0.01	NP (NDs)
Fluoride (mg/L)	DGWC-12	0.2	0.078	4	No	19	0.1479	0.1347	31.58	None	No	0.01	NP (normality)
Fluoride (mg/L)	DGWC-13	0.1616	0.08268	4	No	18	0.1363	0.09588	5.556	None	ln(x)	0.01	Param.
Fluoride (mg/L)	DGWC-14	0.1	0.059	4	No	19	0.08421	0.0255	63.16	None	No	0.01	NP (NDs)
Fluoride (mg/L)	DGWC-15	0.11	0.07	4	No	19	0.1008	0.04178	57.89	None	No	0.01	NP (NDs)
Fluoride (mg/L)	DGWC-17	0.31	0.084	4	No	19	0.1873	0.1471	15.79	None	No	0.01	NP (normality)
Fluoride (mg/L)	DGWC-19	0.3904	0.1621	4	No	19	0.3342	0.2973	5.263	None	ln(x)	0.01	Param.
Fluoride (mg/L)	DGWC-2	0.28	0.053	4	No	19	0.1334	0.1466	36.84	None	No	0.01	NP (normality)
Fluoride (mg/L)	DGWC-20	0.975	0.4713	4	No	19	0.7232	0.4302	5.263	None	No	0.01	Param.
Fluoride (mg/L)	DGWC-21	0.14	0.07	4	No	19	0.1031	0.06194	57.89	None	No	0.01	NP (NDs)
Fluoride (mg/L)	DGWC-22	0.12	0.068	4	No	19	0.1116	0.06226	47.37	None	No	0.01	NP (normality)
Fluoride (mg/L)	DGWC-23	0.1847	0.08543	4	No	19	0.1605	0.1446	10.53	None	ln(x)	0.01	Param.
Fluoride (mg/L)	DGWC-4	0.17	0.082	4	No	19	0.1284	0.1634	63.16	None	No	0.01	NP (NDs)
Fluoride (mg/L)	DGWC-42	0.1	0.06	4	No	19	0.09368	0.02006	89.47	None	No	0.01	NP (NDs)
Fluoride (mg/L)	DGWC-47	1.05	0.514	4	No	19	0.7821	0.4578	0	None	No	0.01	Param.
Fluoride (mg/L)	DGWC-48	1.042	0.5701	4	No	19	0.8374	0.4335	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	DGWC-5	0.5915	0.2121	4	No	18	0.5017	0.4404	5.556	None	ln(x)	0.01	Param.
Fluoride (mg/L)	DGWC-8	0.2693	0.0904	4	No	18	0.2561	0.2239	16.67	Kaplan-Meier	ln(x)	0.01	Param.
Fluoride (mg/L)	DGWC-9	1.33	0.9596	4	No	19	1.145	0.3161	0	None	No	0.01	Param.
Lead (mg/L)	B-100	0.001	0.000088	0.015	No	7	0.0006397	0.0004509	57.14	None	No	0.008	NP (NDs)
Lead (mg/L)	B-101D	0.001	0.000065	0.015	No	6	0.0008442	0.0003817	83.33	None	No	0.0155	NP (NDs)
Lead (mg/L)	B-102D	0.001	0.000037	0.015	No	7	0.0005923	0.0005085	57.14	None	No	0.008	NP (NDs)
Lead (mg/L)	B-104D	0.001	0.000051	0.015	No	7	0.0008644	0.0003587	85.71	None	No	0.008	NP (NDs)
Lead (mg/L)	B-107D	0.001	0.000044	0.015	No	6	0.0008407	0.0003903	83.33	None	No	0.0155	NP (NDs)
Lead (mg/L)	B-111D	0.001	0.000051	0.015	No	7	0.0007299	0.0004614	71.43	None	No	0.008	NP (NDs)
Lead (mg/L)	B-120D	0.001	0.00019	0.015	No	5	0.000838	0.0003622	80	None	No	0.031	NP (NDs)
Lead (mg/L)	B-56	0.001	0.000091	0.015	No	7	0.0006301	0.0004632	57.14	None	No	0.008	NP (NDs)
Lead (mg/L)	B-63	0.001	0.000047	0.015	No	7	0.0007314	0.0004587	71.43	None	No	0.008	NP (NDs)

# Confidence Intervals - All Results

Plant McDonough    Client: Southern Company    Data: McDonough AP    Printed 5/4/2023, 3:01 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	B-77	0.0016	0.00021	0.015	No	9	0.0008244	0.0004573	55.56	None	No	0.002	NP (NDs)
Lead (mg/L)	B-82	0.001	0.000059	0.015	No	8	0.0006661	0.0004616	62.5	None	No	0.004	NP (NDs)
Lead (mg/L)	B-83	0.001	0.000065	0.015	No	8	0.0006594	0.0004497	50	None	No	0.004	NP (normality)
Lead (mg/L)	B-88	0.004108	0.0002521	0.015	No	7	0.002623	0.004173	42.86	Kaplan-Meier	ln(x)	0.01	Param.
Lead (mg/L)	B-93	0.001	0.00012	0.015	No	7	0.0007486	0.0004294	71.43	Kaplan-Meier	No	0.008	NP (NDs)
Lead (mg/L)	DGWC-10	0.005	0.00013	0.015	No	17	0.003281	0.002399	64.71	Kaplan-Meier	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-11	0.001	0.00012	0.015	No	17	0.0007352	0.0004232	70.59	Kaplan-Meier	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-12	0.001	0.00011	0.015	No	19	0.0009058	0.0002822	89.47	Kaplan-Meier	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-13	0.001	0.0002	0.015	No	17	0.0008999	0.0002832	88.24	Kaplan-Meier	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-14	0.001	0.000096	0.015	No	18	0.0008457	0.0003551	83.33	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-15	0.0012	0.0001	0.015	No	18	0.0007634	0.0004215	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-17	0.001	0.0001	0.015	No	18	0.0006552	0.0004454	61.11	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-19	0.001	0.00016	0.015	No	18	0.0007549	0.0004091	72.22	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-2	0.001	0.00009	0.015	No	18	0.0005963	0.0004647	55.56	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-20	0.005	0.00044	0.015	No	18	0.003443	0.00227	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-21	0.001	0.00015	0.015	No	18	0.0006814	0.0004165	61.11	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-23	0.001	0.000066	0.015	No	18	0.0009481	0.0002201	94.44	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-4	0.001	0.0002	0.015	No	17	0.0007923	0.0003869	76.47	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-42	0.0004248	0.0001625	0.015	No	18	0.0008456	0.001117	33.33	Kaplan-Meier	ln(x)	0.01	Param.
Lead (mg/L)	DGWC-47	0.001	0.0006	0.015	No	18	0.001067	0.001004	38.89	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-48	0.002	0.00095	0.015	No	18	0.001555	0.001091	16.67	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-5	0.001	0.000063	0.015	No	17	0.0006693	0.000631	47.06	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-8	0.001	0.00023	0.015	No	17	0.0006931	0.0004002	58.82	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-9	0.005	0.00028	0.015	No	18	0.0042	0.001841	83.33	None	No	0.01	NP (NDs)
Lithium (mg/L)	B-100	0.015	0.0013	0.04	No	7	0.004	0.00487	14.29	None	No	0.008	NP (normality)
Lithium (mg/L)	B-101D	0.01435	0.007921	0.04	No	6	0.01113	0.002338	0	None	No	0.01	Param.
Lithium (mg/L)	B-102D	0.01445	0.01126	0.04	No	7	0.01286	0.001345	0	None	No	0.01	Param.
Lithium (mg/L)	B-104D	0.03973	0.03599	0.04	No	7	0.03786	0.001574	0	None	No	0.01	Param.
Lithium (mg/L)	B-106D	0.005719	0.004948	0.04	No	6	0.005333	0.0002805	0	None	No	0.01	Param.
Lithium (mg/L)	B-107D	0.0165	0.01358	0.04	No	6	0.015	0.001095	0	None	ln(x)	0.01	Param.
Lithium (mg/L)	B-108D	0.016	0.014	0.04	No	6	0.01483	0.0009832	0	None	No	0.0155	NP (normality)
Lithium (mg/L)	B-109D	0.01554	0.01179	0.04	No	6	0.01367	0.001366	0	None	No	0.01	Param.
Lithium (mg/L)	B-111D	0.0284	0.01817	0.04	No	7	0.02329	0.004309	0	None	No	0.01	Param.
<b>Lithium (mg/L)</b>	<b>B-120D</b>	<b>0.0896</b>	<b>0.0656</b>	<b>0.04</b>	<b>Yes</b>	<b>5</b>	<b>0.0776</b>	<b>0.007162</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Lithium (mg/L)	B-56	0.005927	0.005044	0.04	No	7	0.005486	0.0003716	0	None	No	0.01	Param.
Lithium (mg/L)	B-62	0.0094	0.0078	0.04	No	10	0.01017	0.005237	10	None	No	0.011	NP (normality)
Lithium (mg/L)	B-63	0.025	0.0045	0.04	No	8	0.008563	0.006686	12.5	None	No	0.004	NP (normality)
Lithium (mg/L)	B-66	0.03	0.00073	0.04	No	7	0.02582	0.01106	85.71	None	No	0.008	NP (NDs)
Lithium (mg/L)	B-77	0.03	0.00095	0.04	No	9	0.01158	0.01386	33.33	None	No	0.002	NP (normality)
Lithium (mg/L)	B-82	0.0039	0.00073	0.04	No	8	0.001679	0.001309	0	None	No	0.004	NP (normality)
Lithium (mg/L)	B-83	0.003477	0.001851	0.04	No	8	0.00265	0.0008332	0	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	B-88	0.01599	0.001349	0.04	No	7	0.007729	0.009684	0	None	ln(x)	0.01	Param.
Lithium (mg/L)	B-92	0.01721	0.01079	0.04	No	4	0.014	0.001414	0	None	No	0.01	Param.
Lithium (mg/L)	B-93	0.013	0.011	0.04	No	7	0.01171	0.0009512	0	None	No	0.008	NP (normality)
Lithium (mg/L)	B-97	0.005659	0.003791	0.04	No	4	0.004725	0.0004113	0	None	No	0.01	Param.
Lithium (mg/L)	B-98	0.00152	0.0007248	0.04	No	4	0.001123	0.0001752	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-10	0.0059	0.0022	0.04	No	17	0.006524	0.007076	11.76	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-11	0.0027	0.0019	0.04	No	17	0.003582	0.005529	5.882	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-12	0.03	0.0011	0.04	No	19	0.02085	0.01384	68.42	None	No	0.01	NP (NDs)
Lithium (mg/L)	DGWC-13	0.0037	0.0029	0.04	No	17	0.005829	0.007223	11.76	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-14	0.0044	0.0034	0.04	No	18	0.005967	0.005876	5.556	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-15	0.0064	0.0057	0.04	No	17	0.006076	0.0008657	0	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-17	0.03	0.0011	0.04	No	18	0.02036	0.01403	66.67	None	No	0.01	NP (NDs)
Lithium (mg/L)	DGWC-19	0.0034	0.003	0.04	No	18	0.004378	0.005153	5.556	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-2	0.0807	0.023	0.04	No	18	0.04488	0.02911	5.556	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-20	0.012	0.0021	0.04	No	18	0.007817	0.006694	5.556	None	No	0.01	NP (normality)

# Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 5/4/2023, 3:01 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	18	0.007039	0.0045	5.556	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-22	0.0046	0.0035	0.04	No	18	0.005139	0.004978	5.556	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-23	0.01097	0.003628	0.04	No	18	0.01083	0.01726	5.556	None	ln(x)	0.01	Param.
Lithium (mg/L)	DGWC-4	0.0036	0.0026	0.04	No	17	0.004359	0.005342	5.882	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-42	0.0122	0.0091	0.04	No	18	0.0113	0.003989	5.556	None	No	0.01	NP (normality)
<b>Lithium (mg/L)</b>	<b>DGWC-47</b>	<b>0.07135</b>	<b>0.05601</b>	<b>0.04</b>	<b>Yes</b>	<b>18</b>	<b>0.06368</b>	<b>0.01267</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Lithium (mg/L)</b>	<b>DGWC-48</b>	<b>0.1232</b>	<b>0.104</b>	<b>0.04</b>	<b>Yes</b>	<b>18</b>	<b>0.1136</b>	<b>0.01589</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Lithium (mg/L)	DGWC-5	0.0079	0.0046	0.04	No	17	0.007112	0.004931	5.882	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-8	0.0066	0.0039	0.04	No	17	0.006188	0.005007	5.882	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-9	0.02864	0.02485	0.04	No	18	0.02674	0.003134	5.556	None	No	0.01	Param.
Mercury (mg/L)	B-100	0.0002	0.00011	0.002	No	6	0.000185	0.00003674	83.33	None	No	0.0155	NP (NDs)
Mercury (mg/L)	B-101D	0.00029	0.00014	0.002	No	6	0.000205	0.00004806	66.67	None	No	0.0155	NP (NDs)
Mercury (mg/L)	B-104D	0.0002	0.000079	0.002	No	7	0.0001827	0.00004573	85.71	None	No	0.008	NP (NDs)
Mercury (mg/L)	B-107D	0.0002	0.00016	0.002	No	6	0.0001933	0.00001633	83.33	None	No	0.0155	NP (NDs)
Mercury (mg/L)	B-108D	0.0002	0.00014	0.002	No	6	0.00019	0.00002449	83.33	None	No	0.0155	NP (NDs)
Mercury (mg/L)	B-111D	0.0002	0.000094	0.002	No	7	0.0001849	0.00004006	85.71	None	No	0.008	NP (NDs)
Mercury (mg/L)	B-56	0.00034	0.00016	0.002	No	7	0.0002143	0.0000574	71.43	None	No	0.008	NP (NDs)
Mercury (mg/L)	B-66	0.00029	0.0002	0.002	No	7	0.0002129	0.00003402	85.71	None	No	0.008	NP (NDs)
Mercury (mg/L)	B-82	0.0002	0.00011	0.002	No	8	0.0001887	0.00003182	87.5	None	No	0.004	NP (NDs)
Mercury (mg/L)	B-88	0.0002	0.0001	0.002	No	7	0.0001729	0.00004645	71.43	None	No	0.008	NP (NDs)
Mercury (mg/L)	B-92	0.0001781	0.0001353	0.002	No	4	0.0001725	0.00002062	25	Kaplan-Meier	No	0.01	Param.
Mercury (mg/L)	B-93	0.0002359	0.0001013	0.002	No	7	0.0001869	0.00005552	28.57	Kaplan-Meier	No	0.01	Param.
Mercury (mg/L)	DGWC-10	0.0002	0.00009	0.002	No	17	0.0001718	0.00005248	76.47	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-11	0.0002	0.00008	0.002	No	17	0.0001759	0.00005397	82.35	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-12	0.0002	0.00008	0.002	No	19	0.0001614	0.00006139	68.42	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-13	0.0002	0.00009	0.002	No	17	0.0001859	0.00004001	88.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-14	0.0002	0.00008	0.002	No	18	0.0001772	0.00005267	83.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-15	0.0002	0.00006	0.002	No	18	0.0001927	0.000033	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-17	0.0002	0.000082	0.002	No	18	0.000147	0.00006086	50	None	No	0.01	NP (normality)
Mercury (mg/L)	DGWC-19	0.0002	0.00013	0.002	No	18	0.0001728	0.00005518	77.78	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-2	0.00064	0.000083	0.002	No	18	0.0002041	0.0001184	77.78	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-20	0.0002	0.00009	0.002	No	18	0.0001806	0.00004478	83.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-21	0.0002	0.00008	0.002	No	18	0.000165	0.00005963	72.22	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-22	0.0002	0.00011	0.002	No	18	0.0001697	0.00005354	72.22	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-23	0.0002	0.00014	0.002	No	18	0.0001878	0.00005231	38.89	None	No	0.01	NP (normality)
Mercury (mg/L)	DGWC-4	0.00022	0.00013	0.002	No	17	0.000206	0.0001076	70.59	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-42	0.0002	0.00004	0.002	No	18	0.0001911	0.00003771	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-48	0.0002	0.00006	0.002	No	18	0.0001922	0.000033	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-5	0.0002401	0.0001229	0.002	No	17	0.0001914	0.0001144	11.76	None	x^(1/3)	0.01	Param.
Mercury (mg/L)	DGWC-8	0.0002	0.00009	0.002	No	17	0.0001583	0.00006028	64.71	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-9	0.0002	0.00014	0.002	No	18	0.0001851	0.00008025	38.89	None	No	0.01	NP (normality)
Molybdenum (mg/L)	B-100	0.19	0.01	0.1	No	7	0.03571	0.06803	85.71	None	No	0.008	NP (NDs)
Molybdenum (mg/L)	B-101D	0.01	0.0022	0.1	No	6	0.0087	0.003184	83.33	None	No	0.0155	NP (NDs)
Molybdenum (mg/L)	B-102D	0.01	0.0015	0.1	No	7	0.008786	0.003213	85.71	None	No	0.008	NP (NDs)
Molybdenum (mg/L)	B-104D	0.01	0.00083	0.1	No	7	0.007433	0.004386	71.43	None	No	0.008	NP (NDs)
Molybdenum (mg/L)	B-109D	0.001963	0.001018	0.1	No	6	0.00145	0.0003886	0	None	ln(x)	0.01	Param.
Molybdenum (mg/L)	B-111D	0.013	0.0052	0.1	No	7	0.0072	0.002719	0	None	No	0.008	NP (normality)
Molybdenum (mg/L)	B-120D	0.01	0.00089	0.1	No	5	0.008178	0.004074	80	None	No	0.031	NP (NDs)
Molybdenum (mg/L)	B-66	0.01	0.0015	0.1	No	7	0.007614	0.004075	71.43	None	No	0.008	NP (NDs)
Molybdenum (mg/L)	B-88	0.01	0.0012	0.1	No	7	0.007486	0.004294	71.43	None	No	0.008	NP (NDs)
Molybdenum (mg/L)	B-98	0.002173	0.0006717	0.1	No	4	0.003435	0.004386	25	Kaplan-Meier	ln(x)	0.01	Param.
Molybdenum (mg/L)	DGWC-13	0.02147	0.01153	0.1	No	17	0.01775	0.009353	0	None	ln(x)	0.01	Param.
Molybdenum (mg/L)	DGWC-2	0.01	0.002	0.1	No	18	0.0046	0.003948	33.33	None	No	0.01	NP (normality)
Molybdenum (mg/L)	DGWC-23	0.01062	0.007016	0.1	No	18	0.008817	0.002976	0	None	No	0.01	Param.
Molybdenum (mg/L)	DGWC-4	0.006226	0.004456	0.1	No	17	0.005341	0.001412	5.882	None	No	0.01	Param.
Selenium (mg/L)	B-100	0.005	0.0019	0.05	No	7	0.004557	0.001172	85.71	None	No	0.008	NP (NDs)

# Confidence Intervals - All Results

Plant McDonough    Client: Southern Company    Data: McDonough AP    Printed 5/4/2023, 3:01 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Selenium (mg/L)	B-101D	0.005	0.0031	0.05	No	6	0.004683	0.0007757	83.33	None	No	0.0155	NP (NDs)
Selenium (mg/L)	B-104D	0.005	0.0016	0.05	No	7	0.003786	0.001586	57.14	None	No	0.008	NP (NDs)
Selenium (mg/L)	B-108D	0.005	0.0016	0.05	No	6	0.004433	0.001388	83.33	None	No	0.0155	NP (NDs)
Selenium (mg/L)	B-111D	0.005	0.0022	0.05	No	7	0.0046	0.001058	85.71	None	No	0.008	NP (NDs)
Selenium (mg/L)	B-120D	0.005315	0.0005655	0.05	No	5	0.00294	0.001417	0	None	No	0.01	Param.
Selenium (mg/L)	B-56	0.02	0.006852	0.05	No	7	0.01294	0.007336	0	None	ln(x)	0.01	Param.
Selenium (mg/L)	B-77	0.005	0.0017	0.05	No	9	0.004633	0.0011	88.89	None	No	0.002	NP (NDs)
Selenium (mg/L)	B-82	0.005	0.0016	0.05	No	8	0.003525	0.001595	50	None	No	0.004	NP (normality)
Selenium (mg/L)	B-83	0.02699	0.01381	0.05	No	8	0.0204	0.006222	0	None	No	0.01	Param.
Selenium (mg/L)	B-88	0.003212	0.001731	0.05	No	7	0.002471	0.0006237	14.29	None	No	0.01	Param.
Selenium (mg/L)	B-92	0.01552	0.00007858	0.05	No	4	0.0078	0.003401	0	None	No	0.01	Param.
Selenium (mg/L)	B-93	0.02586	0.005315	0.05	No	7	0.01483	0.01012	0	None	sqrt(x)	0.01	Param.
Selenium (mg/L)	B-97	0.004783	0.0005665	0.05	No	4	0.002675	0.0009287	0	None	No	0.01	Param.
Selenium (mg/L)	B-98	0.005	0.0033	0.05	No	4	0.004575	0.00085	75	None	No	0.0625	NP (NDs)
Selenium (mg/L)	DGWC-10	0.04715	0.02054	0.05	No	17	0.03384	0.02123	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-12	0.005	0.0019	0.05	No	19	0.0041	0.002107	63.16	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-13	0.004438	0.002327	0.05	No	17	0.004935	0.002937	17.65	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	DGWC-14	0.005	0.0016	0.05	No	18	0.003967	0.002244	61.11	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-15	0.01	0.0018	0.05	No	18	0.0051	0.001436	94.44	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-17	0.008642	0.006345	0.05	No	18	0.007656	0.002252	11.11	None	ln(x)	0.01	Param.
Selenium (mg/L)	DGWC-19	0.008095	0.005216	0.05	No	18	0.006656	0.002379	11.11	None	No	0.01	Param.
Selenium (mg/L)	DGWC-2	0.01	0.0031	0.05	No	18	0.006344	0.003243	38.89	None	No	0.01	NP (normality)
Selenium (mg/L)	DGWC-20	0.06489	0.03724	0.05	No	18	0.05107	0.02285	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-22	0.005	0.0017	0.05	No	18	0.004817	0.0007778	94.44	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-4	0.005	0.0014	0.05	No	17	0.004788	0.0008731	94.12	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-47	0.01027	0.003878	0.05	No	18	0.007678	0.005878	11.11	None	sqrt(x)	0.01	Param.
Selenium (mg/L)	DGWC-48	0.006278	0.002622	0.05	No	18	0.005511	0.003126	22.22	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	DGWC-5	0.03136	0.00872	0.05	No	17	0.02846	0.03921	5.882	None	ln(x)	0.01	Param.
Selenium (mg/L)	DGWC-8	0.0069	0.0031	0.05	No	17	0.004659	0.001939	58.82	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-9	0.1083	0.04482	0.05	No	18	0.08198	0.05719	0	None	sqrt(x)	0.01	Param.
Thallium (mg/L)	B-56	0.0003056	0.0001887	0.002	No	7	0.0002471	0.00004923	0	None	No	0.01	Param.
Thallium (mg/L)	B-82	0.001	0.000099	0.002	No	8	0.0007761	0.0004145	75	None	No	0.004	NP (NDs)
Thallium (mg/L)	B-83	0.001	0.000072	0.002	No	8	0.000884	0.0003281	87.5	None	No	0.004	NP (NDs)
Thallium (mg/L)	B-88	0.001	0.0002	0.002	No	7	0.0008857	0.0003024	85.71	None	No	0.008	NP (NDs)
Thallium (mg/L)	B-92	0.001	0.0002	0.002	No	4	0.0006025	0.000459	50	None	No	0.0625	NP (normality)
Thallium (mg/L)	DGWC-10	0.001	0.00036	0.002	No	17	0.001247	0.001798	23.53	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-12	0.001	0.000091	0.002	No	19	0.0006667	0.0004485	63.16	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-17	0.001	0.00017	0.002	No	18	0.0004983	0.0004121	38.89	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-19	0.0005563	0.0004897	0.002	No	18	0.0005211	0.00005728	5.556	None	x^2	0.01	Param.
Thallium (mg/L)	DGWC-20	0.0023	0.0006	0.002	No	18	0.002996	0.003884	27.78	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-22	0.001	0.00007	0.002	No	18	0.0007408	0.0004301	72.22	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-4	0.001	0.000073	0.002	No	17	0.0009455	0.0002248	94.12	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-42	0.001	0.00028	0.002	No	18	0.0007566	0.0004061	72.22	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-47	0.00032	0.0002	0.002	No	18	0.0002767	0.00009493	11.11	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-48	0.001	0.00009	0.002	No	18	0.0007448	0.0004235	72.22	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-5	0.001	0.0002	0.002	No	17	0.0008435	0.0003494	82.35	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-8	0.001	0.00019	0.002	No	17	0.0004488	0.0003699	29.41	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-9	0.005	0.00044	0.002	No	18	0.00253	0.002276	44.44	None	No	0.01	NP (normality)

# Appendix IV Trend Tests - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 5/4/2023, 3:09 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Beryllium (mg/L)	DGWA-70A (bg)	-0.0005159	-82	-68	Yes	18	44.44	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-47	-0.0008495	-74	-68	Yes	18	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-48	-0.0003961	-92	-68	Yes	18	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWA-53 (bg)	-0.004011	-97	-68	Yes	18	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-10	-0.02202	-86	-63	Yes	17	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-47	-0.03923	-105	-68	Yes	18	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-48	-0.04106	-134	-68	Yes	18	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-8	-0.01429	-100	-63	Yes	17	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-9	0.01916	101	68	Yes	18	0	n/a	n/a	0.01	NP
Combined Radium 226 + 228 (pCi/L)	DGWA-53 (bg)	-0.5192	-83	-68	Yes	18	0	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWC-47	-0.005455	-99	-68	Yes	18	0	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWC-48	-0.006366	-107	-68	Yes	18	0	n/a	n/a	0.01	NP

# Appendix IV Trend Tests - All Results

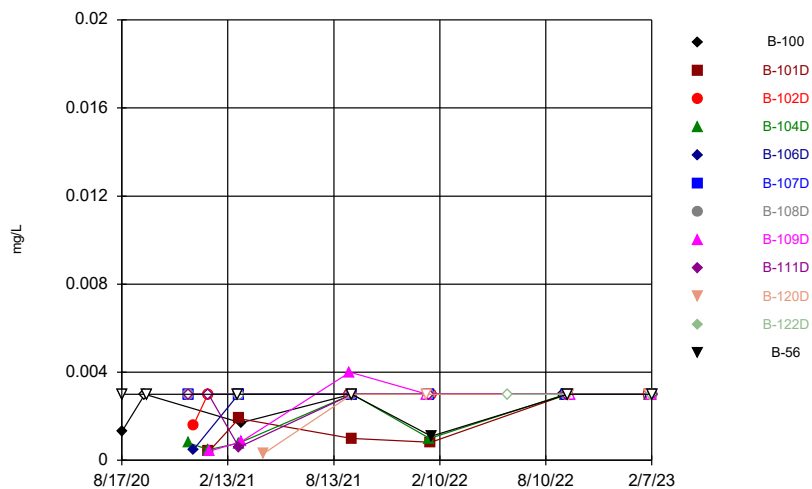
Plant McDonough    Client: Southern Company    Data: McDonough AP    Printed 5/4/2023, 3:09 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Arsenic (mg/L)	DGWA-53 (bg)	0	-2	-68	No	18	55.56	n/a	n/a	0.01	NP
Arsenic (mg/L)	DGWA-70A (bg)	0	-28	-68	No	18	83.33	n/a	n/a	0.01	NP
Arsenic (mg/L)	DGWA-71 (bg)	0	25	63	No	17	82.35	n/a	n/a	0.01	NP
Arsenic (mg/L)	DGWC-9	-0.0006814	-17	-68	No	18	5.556	n/a	n/a	0.01	NP
Beryllium (mg/L)	B-92	-0.0009865	-4	-14	No	6	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	B-93	0.0009953	14	21	No	8	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWA-53 (bg)	0	-17	-68	No	18	94.44	n/a	n/a	0.01	NP
<b>Beryllium (mg/L)</b>	<b>DGWA-70A (bg)</b>	<b>-0.0005159</b>	<b>-82</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>44.44</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Beryllium (mg/L)	DGWA-71 (bg)	-0.00001433	-47	-68	No	18	27.78	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-10	0.0003134	23	63	No	17	0	n/a	n/a	0.01	NP
<b>Beryllium (mg/L)</b>	<b>DGWC-47</b>	<b>-0.0008495</b>	<b>-74</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Beryllium (mg/L)</b>	<b>DGWC-48</b>	<b>-0.0003961</b>	<b>-92</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Beryllium (mg/L)	DGWC-5	0.000423	48	63	No	17	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-9	-0.00002099	-6	-68	No	18	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	B-104D	-0.009707	-4	-18	No	7	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	B-56	0.005214	16	18	No	7	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	B-63	-0.003999	-11	-21	No	8	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	B-93	-0.002185	-7	-21	No	8	0	n/a	n/a	0.01	NP
<b>Cobalt (mg/L)</b>	<b>DGWA-53 (bg)</b>	<b>-0.004011</b>	<b>-97</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Cobalt (mg/L)	DGWA-70A (bg)	0	37	68	No	18	55.56	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWA-71 (bg)	0	50	63	No	17	70.59	n/a	n/a	0.01	NP
<b>Cobalt (mg/L)</b>	<b>DGWC-10</b>	<b>-0.02202</b>	<b>-86</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Cobalt (mg/L)	DGWC-19	0	-1	-68	No	18	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-20	0.06069	62	68	No	18	0	n/a	n/a	0.01	NP
<b>Cobalt (mg/L)</b>	<b>DGWC-47</b>	<b>-0.03923</b>	<b>-105</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Cobalt (mg/L)</b>	<b>DGWC-48</b>	<b>-0.04106</b>	<b>-134</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Cobalt (mg/L)</b>	<b>DGWC-8</b>	<b>-0.01429</b>	<b>-100</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Cobalt (mg/L)</b>	<b>DGWC-9</b>	<b>0.01916</b>	<b>101</b>	<b>68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Combined Radium 226 + 228 (pCi/L)	B-104D	-2.931	-9	-18	No	7	0	n/a	n/a	0.01	NP
Combined Radium 226 + 228 (pCi/L)	B-109D	2.863	11	14	No	6	0	n/a	n/a	0.01	NP
<b>Combined Radium 226 + 228 (pCi/L)</b>	<b>DGWA-53 (bg)</b>	<b>-0.5192</b>	<b>-83</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Combined Radium 226 + 228 (pCi/L)	DGWA-70A (bg)	-0.001028	-1	-74	No	19	0	n/a	n/a	0.01	NP
Combined Radium 226 + 228 (pCi/L)	DGWA-71 (bg)	-0.004534	-4	-68	No	18	0	n/a	n/a	0.01	NP
Lithium (mg/L)	B-120D	-0.009492	-8	-12	No	5	0	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWA-53 (bg)	-0.0001042	-24	-68	No	18	5.556	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWA-70A (bg)	0	24	68	No	18	83.33	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWA-71 (bg)	-0.00009524	-54	-63	No	17	17.65	n/a	n/a	0.01	NP
<b>Lithium (mg/L)</b>	<b>DGWC-47</b>	<b>-0.005455</b>	<b>-99</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Lithium (mg/L)</b>	<b>DGWC-48</b>	<b>-0.006366</b>	<b>-107</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>

FIGURE A.

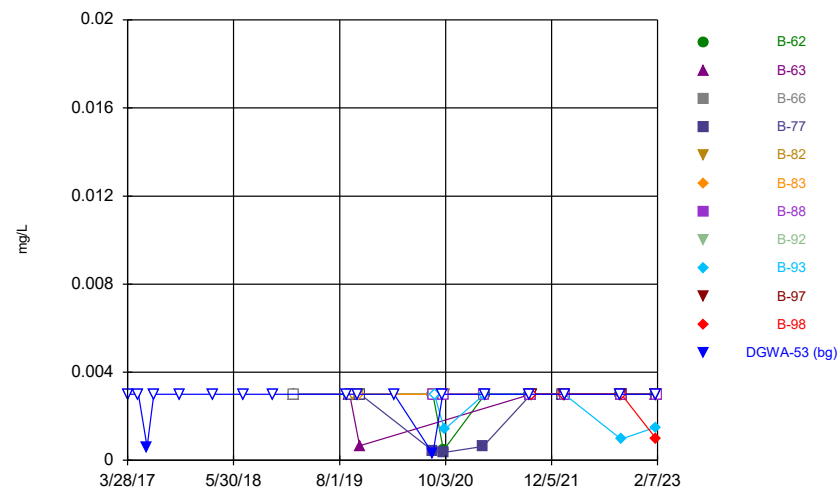


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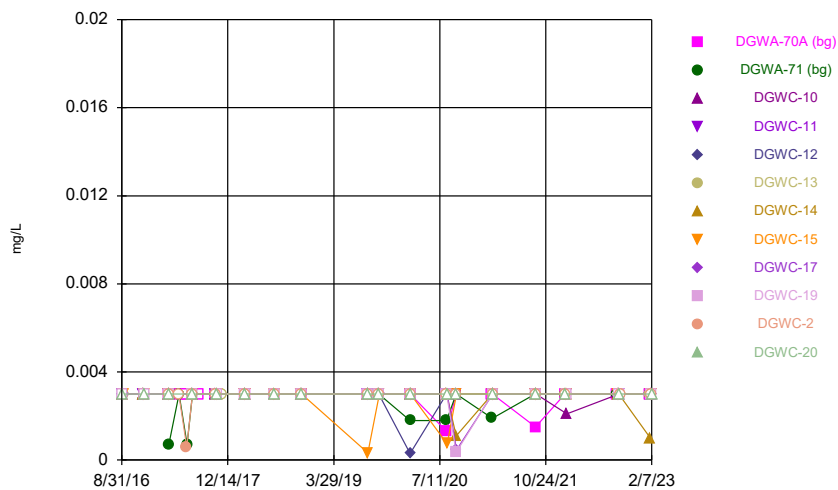
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Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



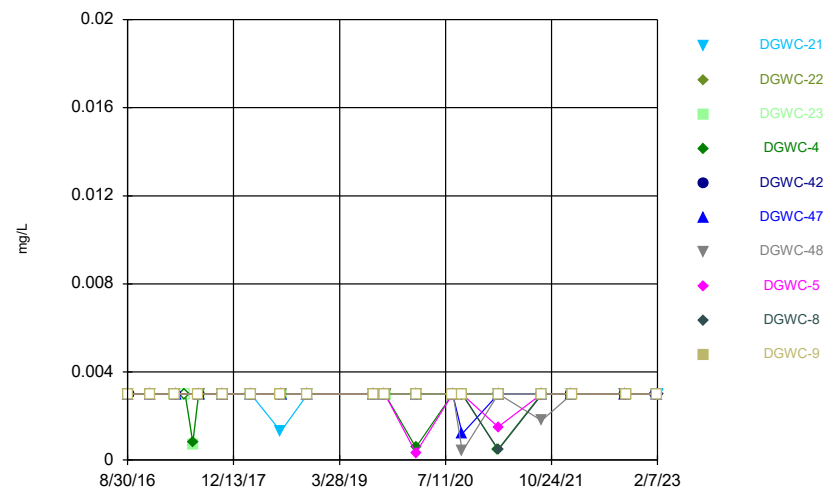
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Plant McDonough Client: Southern Company Data: McDonough AP

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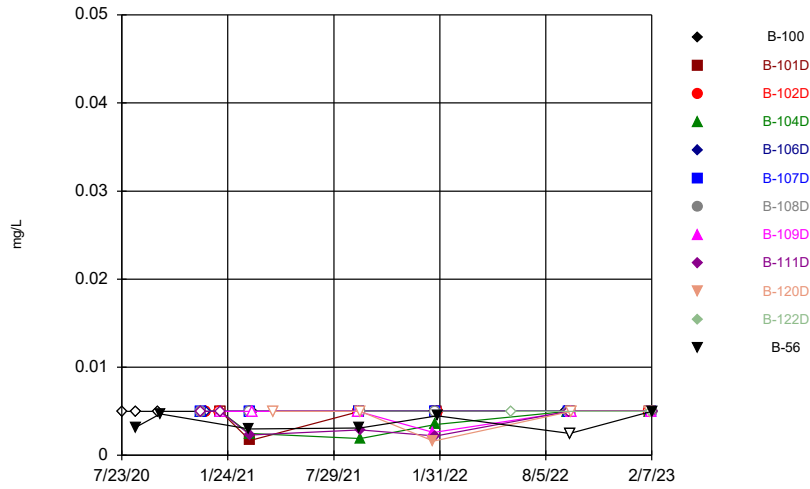
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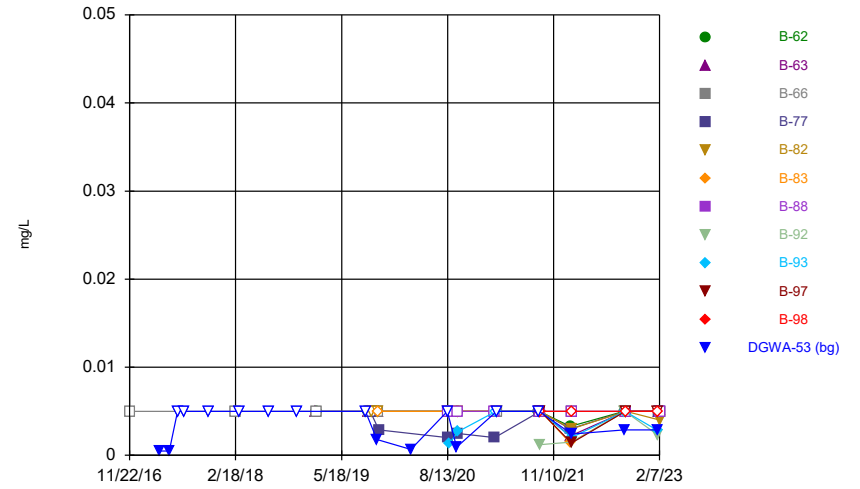
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Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



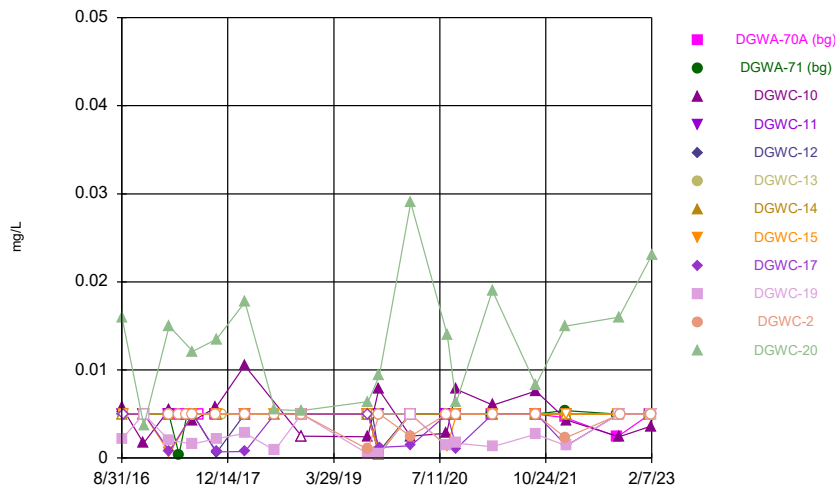
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Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



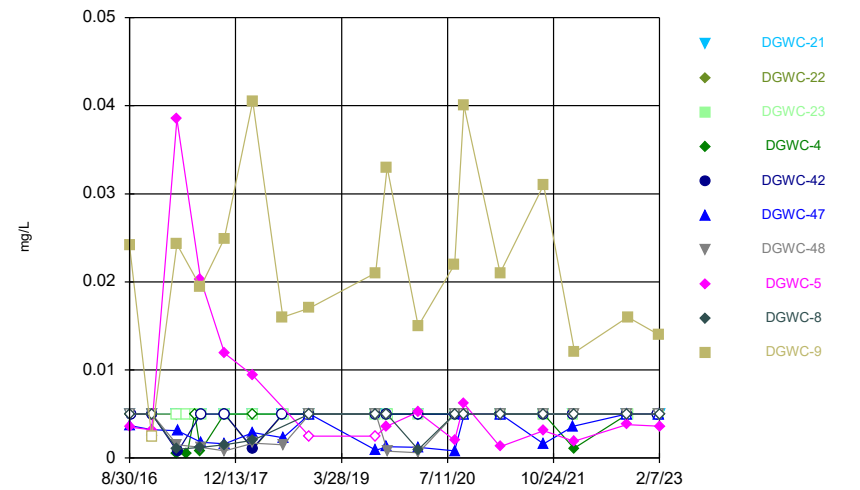
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Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



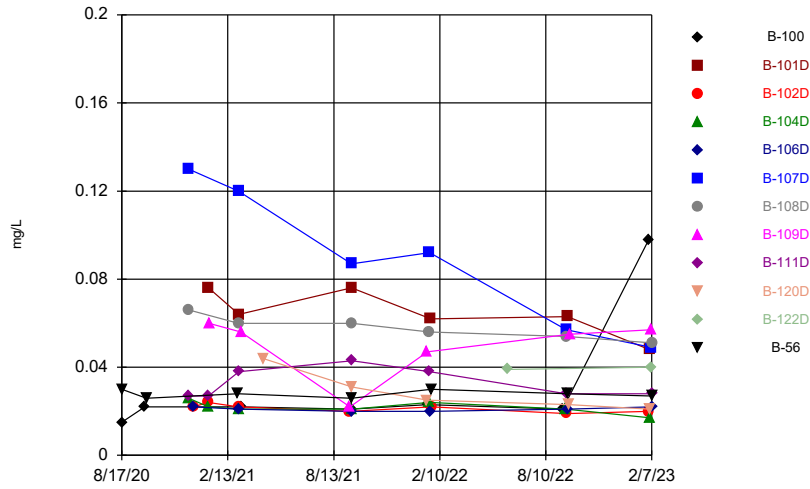
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Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



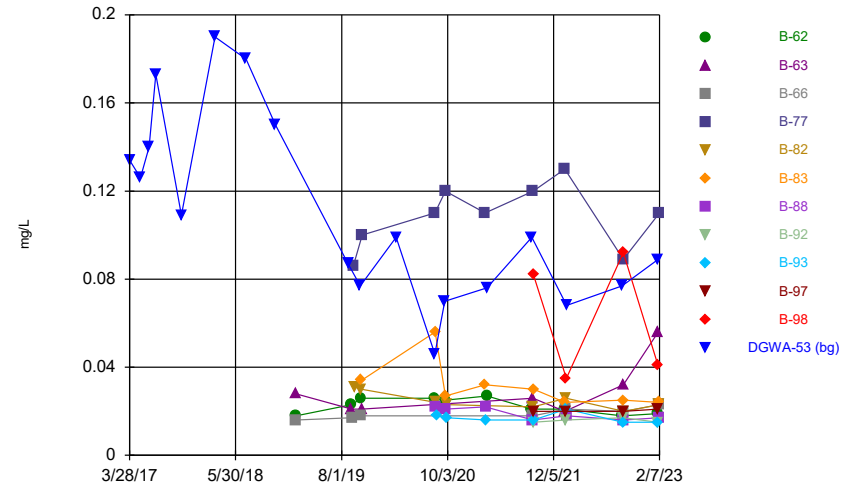
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### Time Series



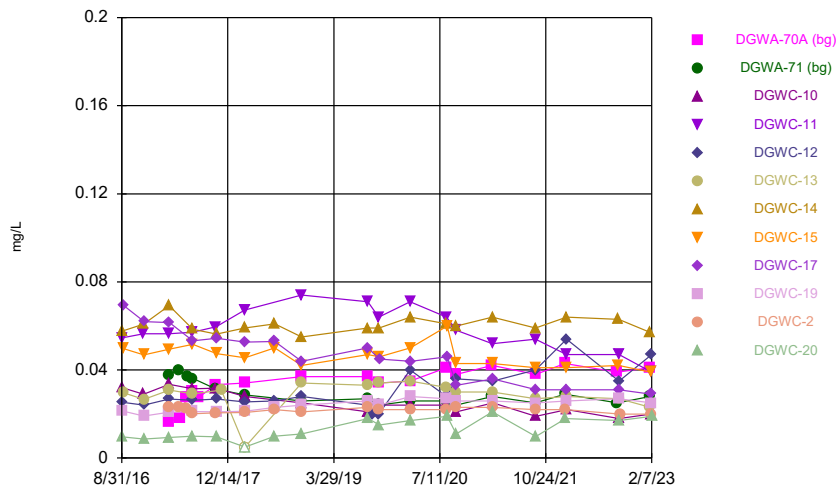
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### Time Series



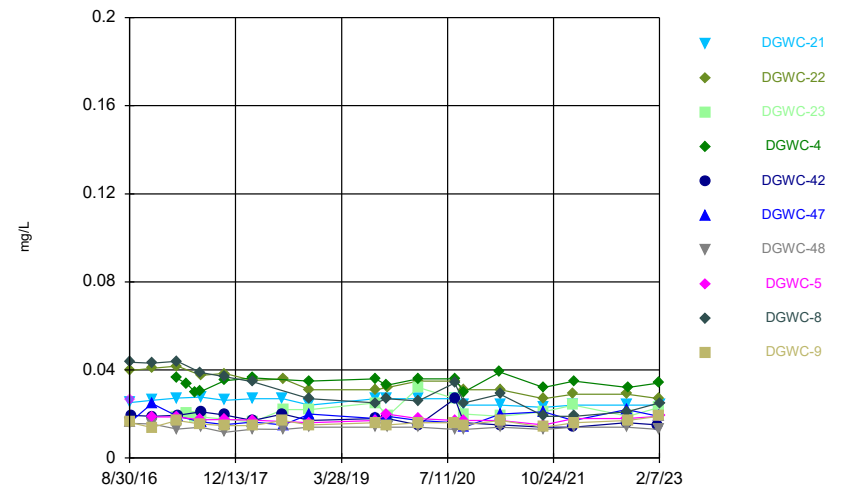
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Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



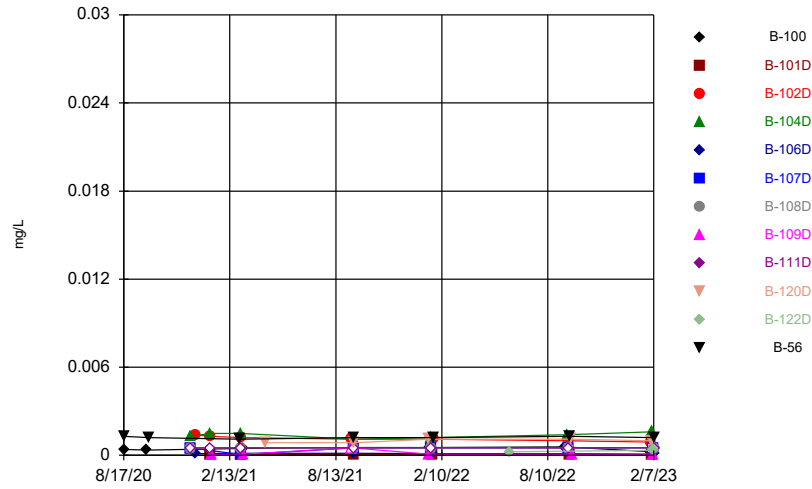
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Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



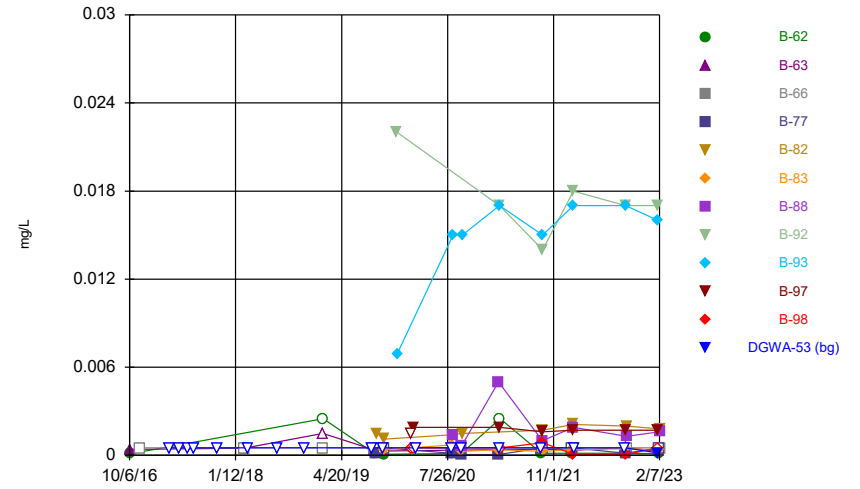
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Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



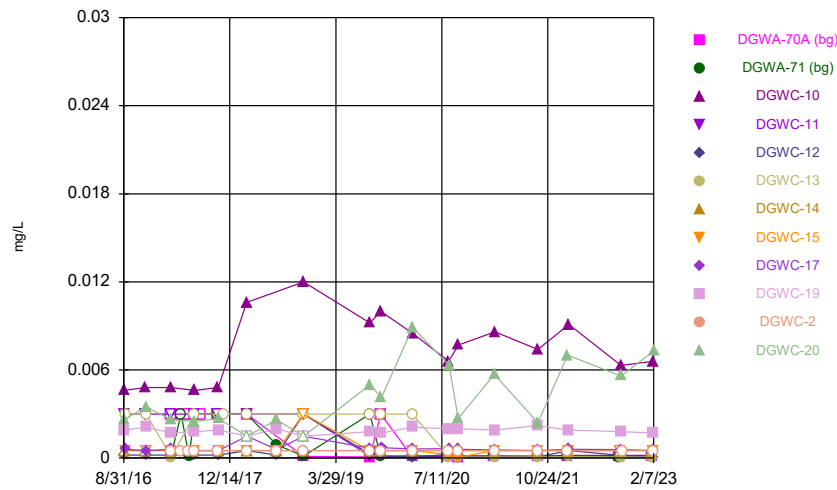
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### Time Series



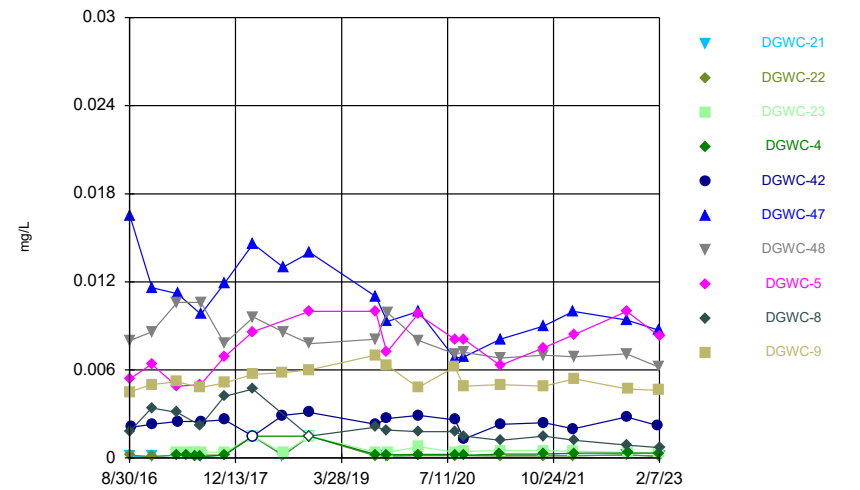
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### Time Series



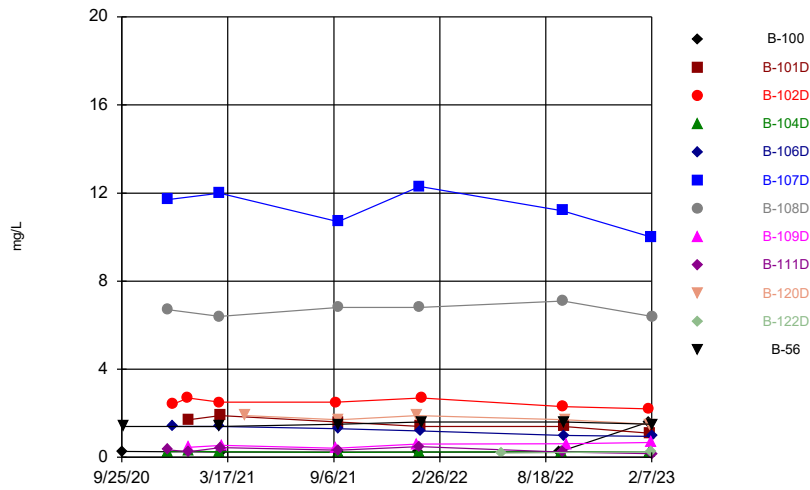
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Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



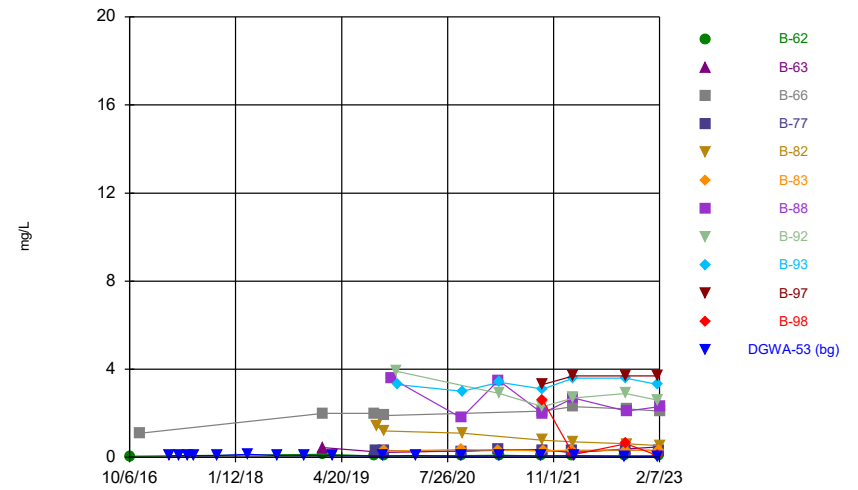
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Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



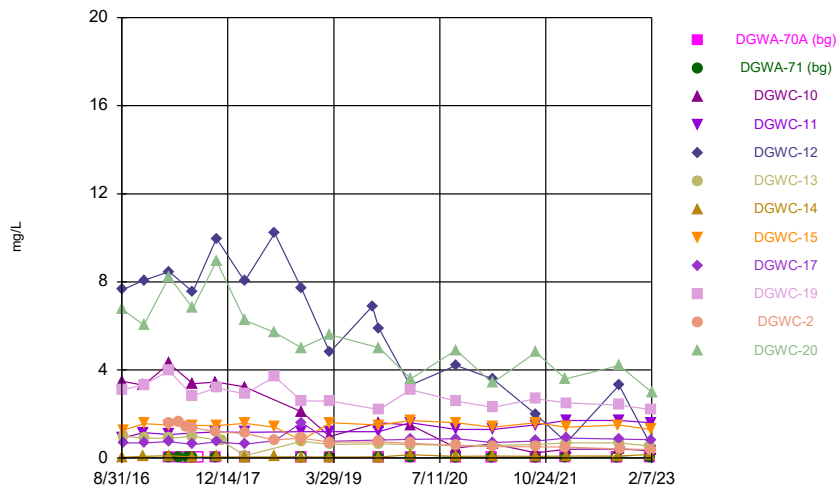
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Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



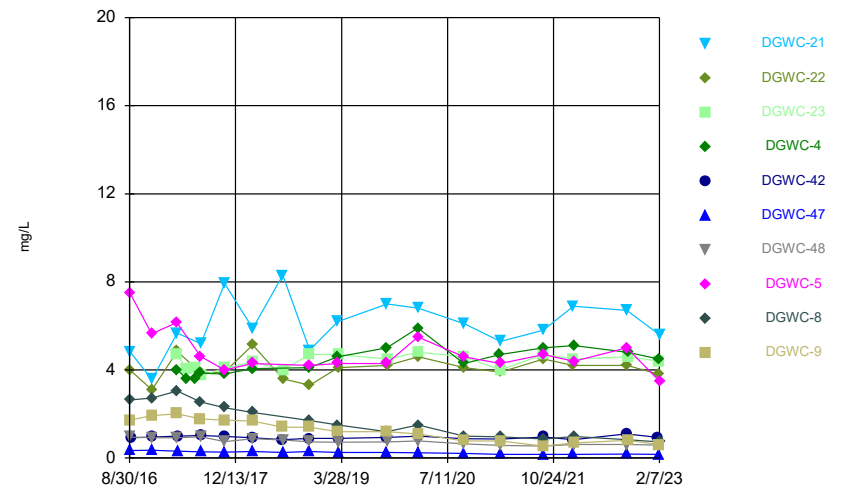
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### Time Series



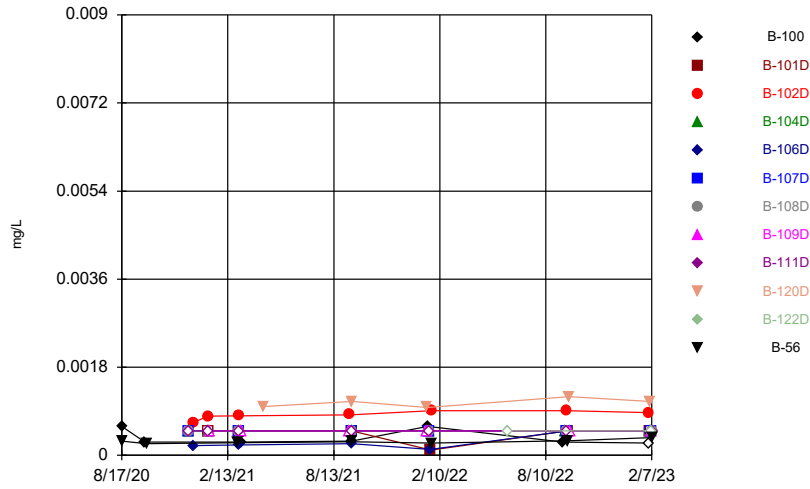
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Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



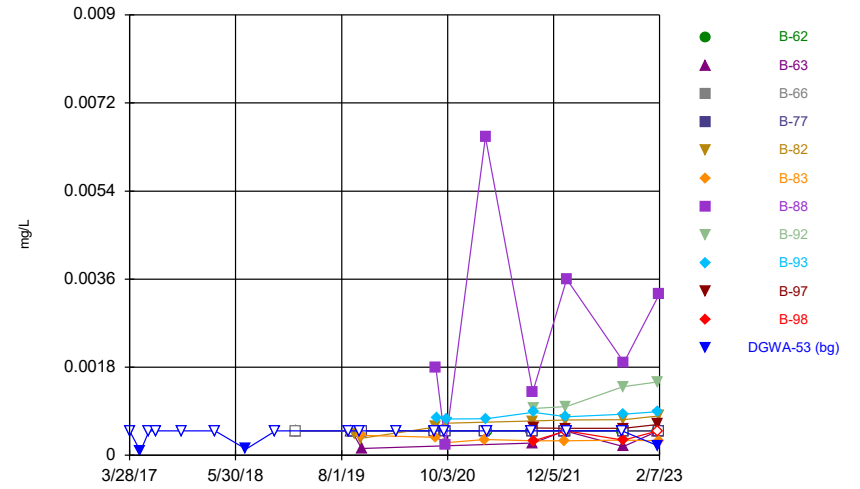
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



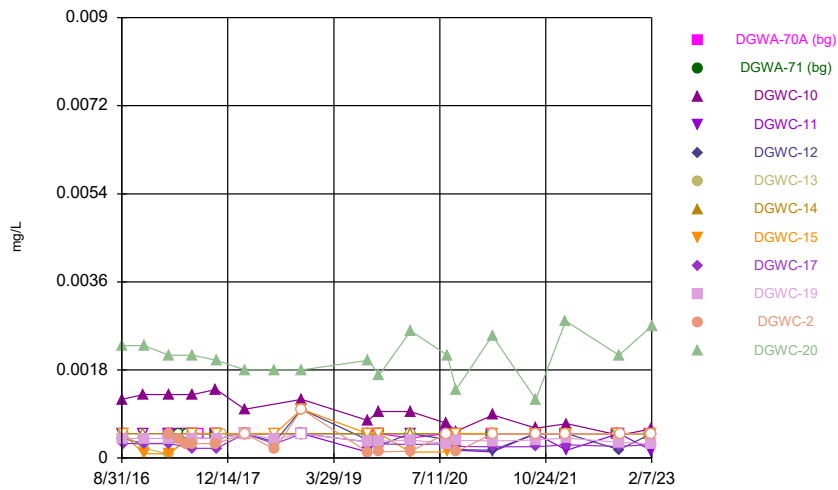
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



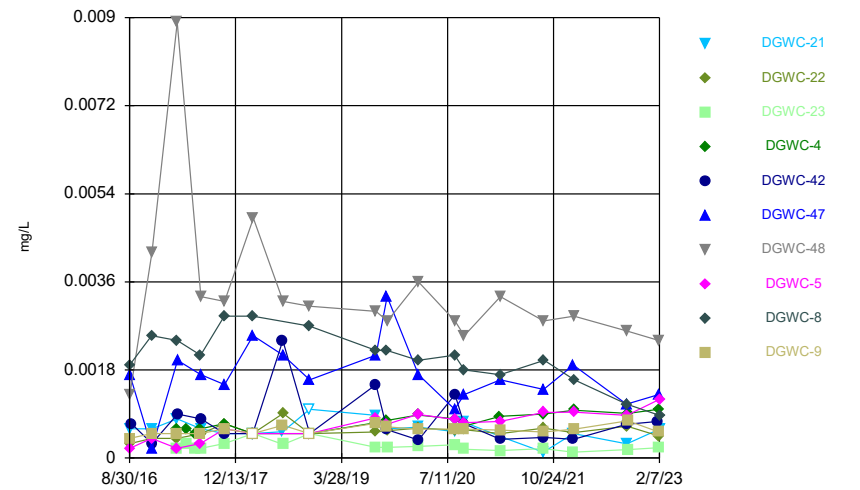
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



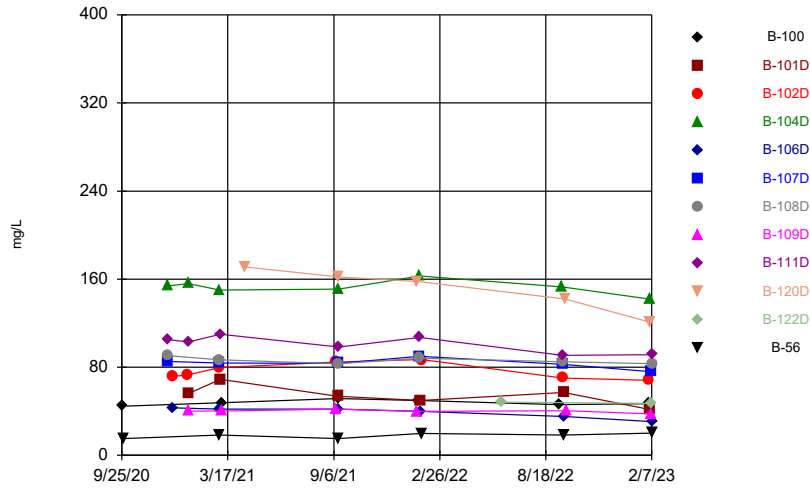
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



Constituent: Cadmium Analysis Run 5/4/2023 2:39 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

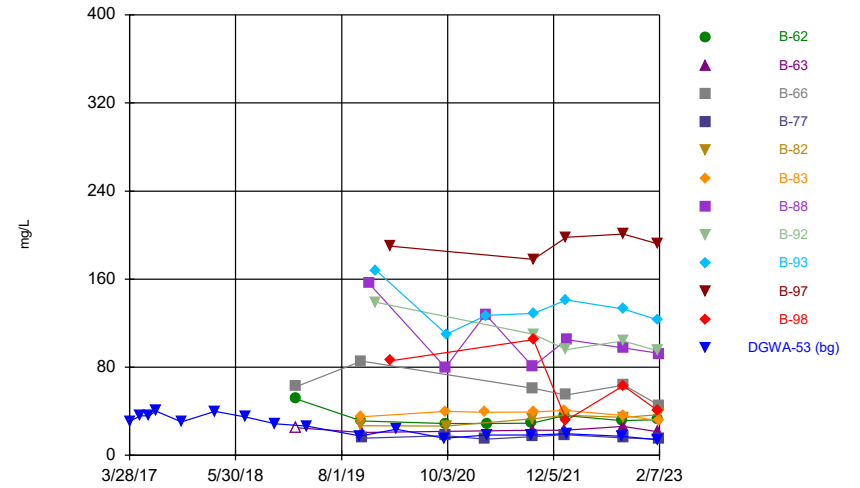
### Time Series



Constituent: Calcium Analysis Run 5/4/2023 2:39 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Hollow symbols indicate censored values.

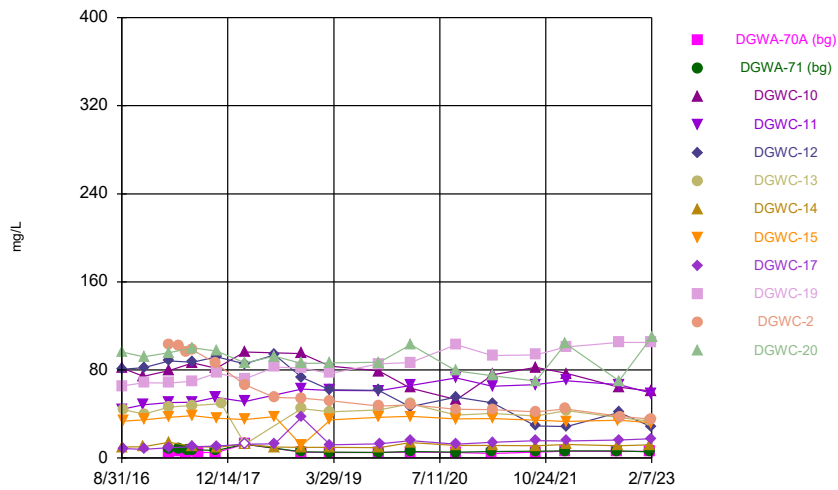
### Time Series



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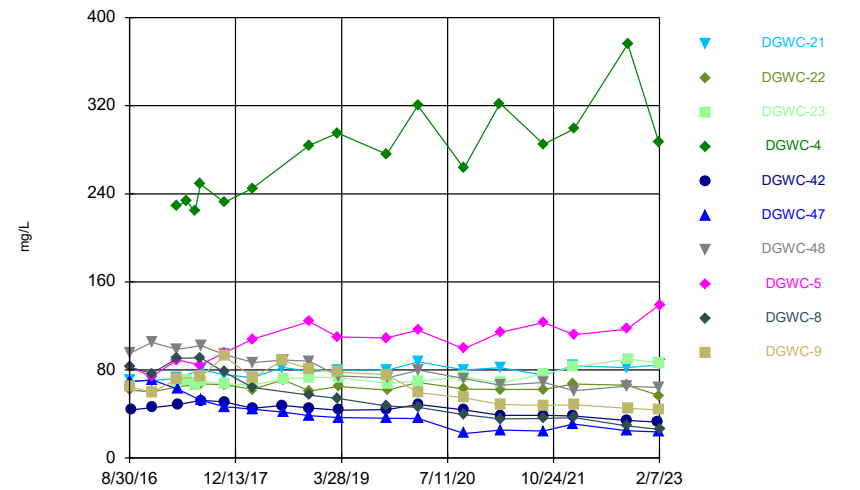
Hollow symbols indicate censored values.

### Time Series



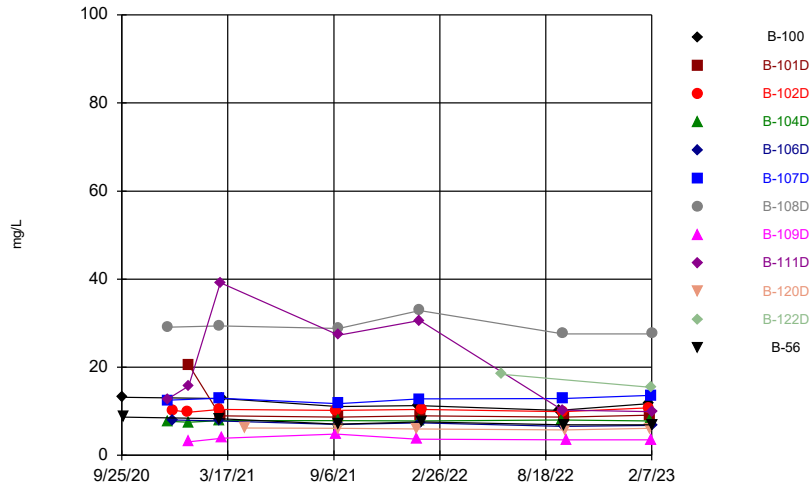
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### Time Series



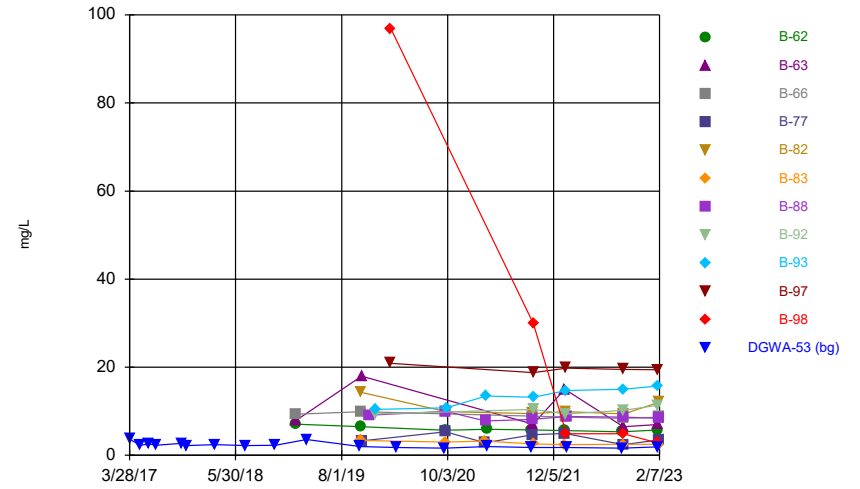
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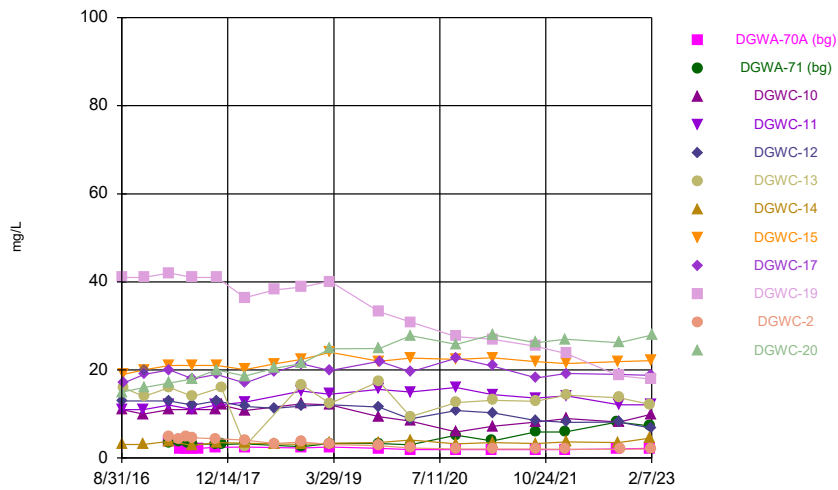
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### Time Series



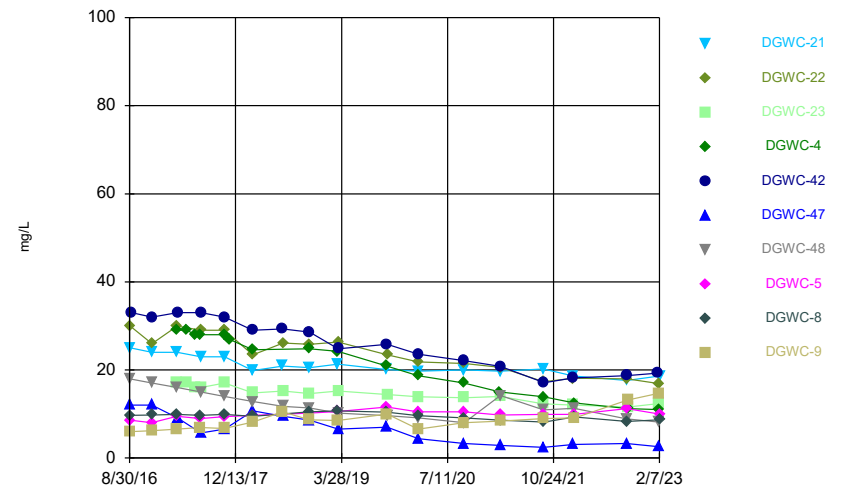
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Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



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Plant McDonough Client: Southern Company Data: McDonough AP

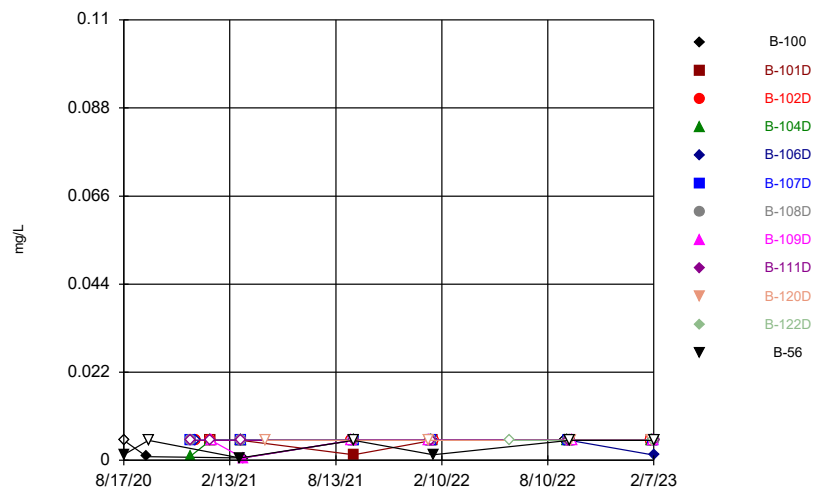
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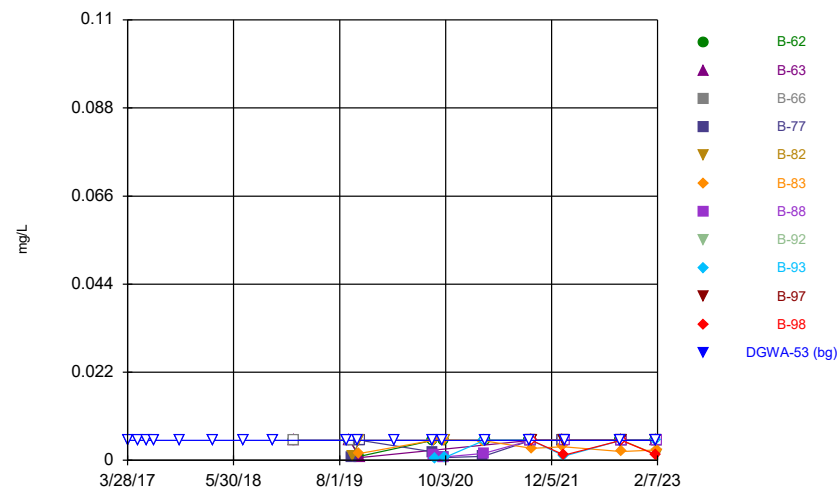


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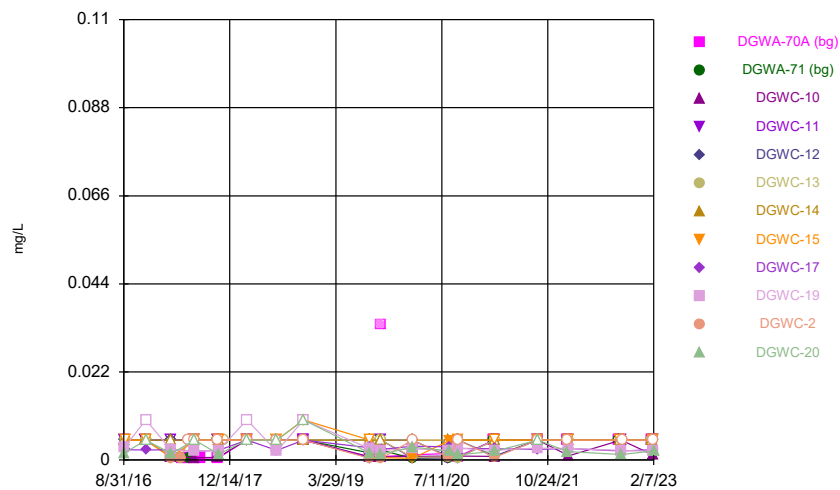
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Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



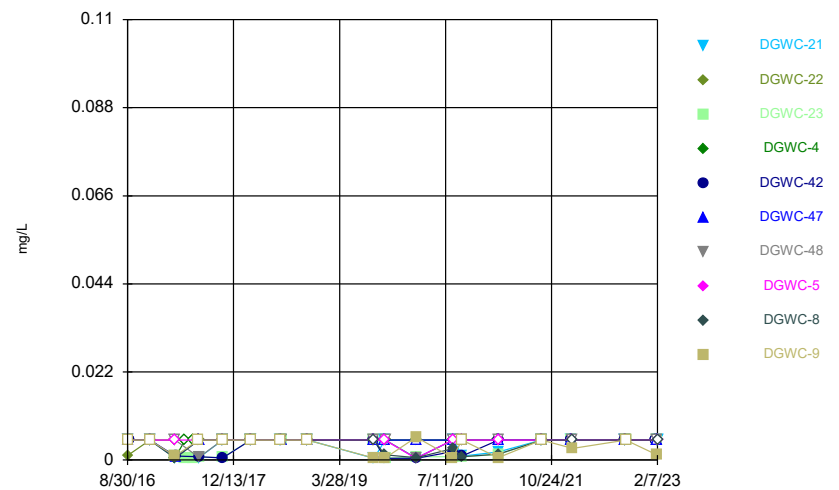
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Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



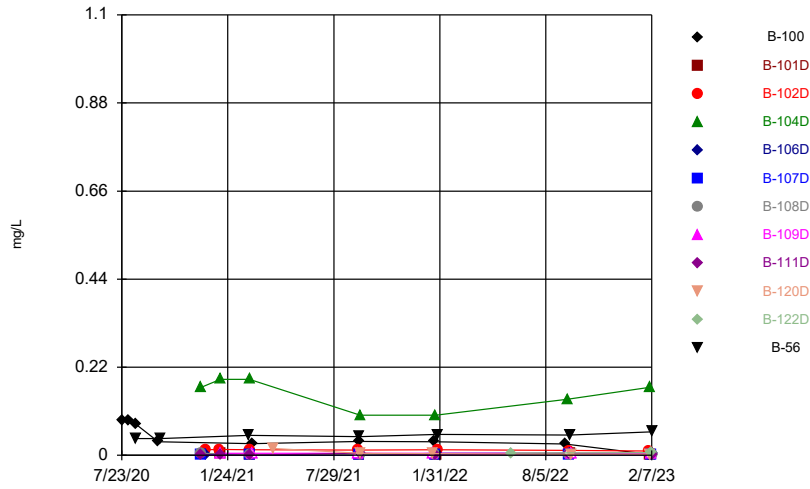
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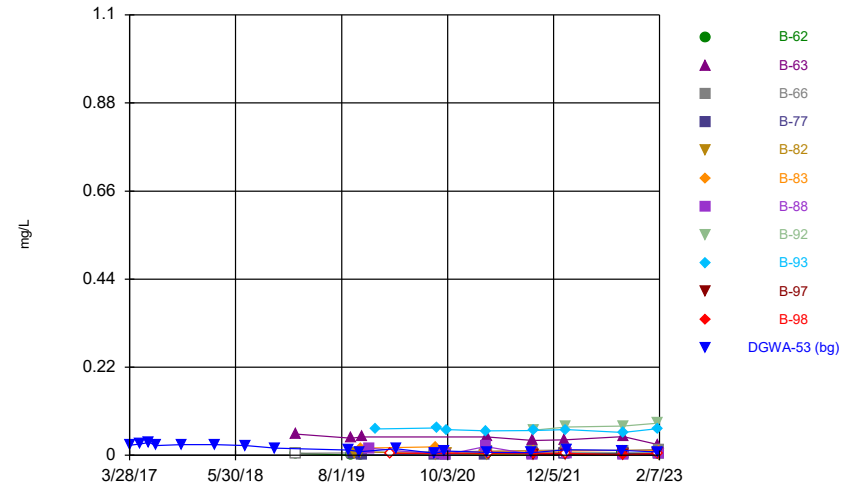
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Time Series



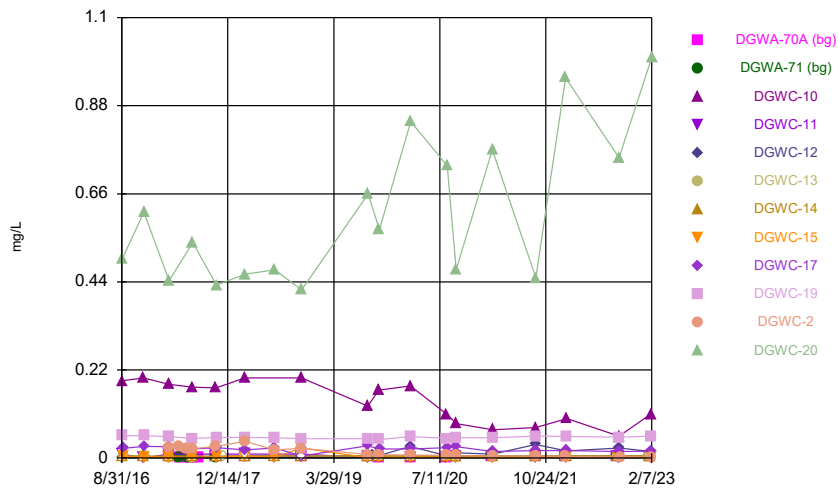
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Time Series



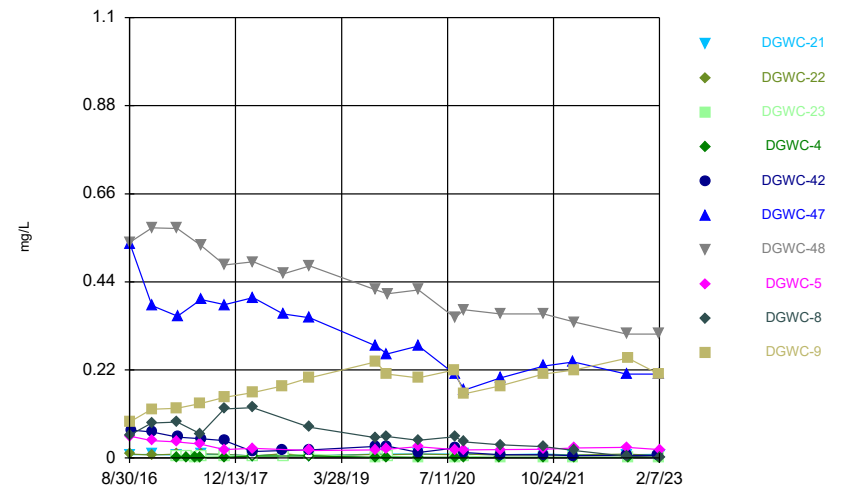
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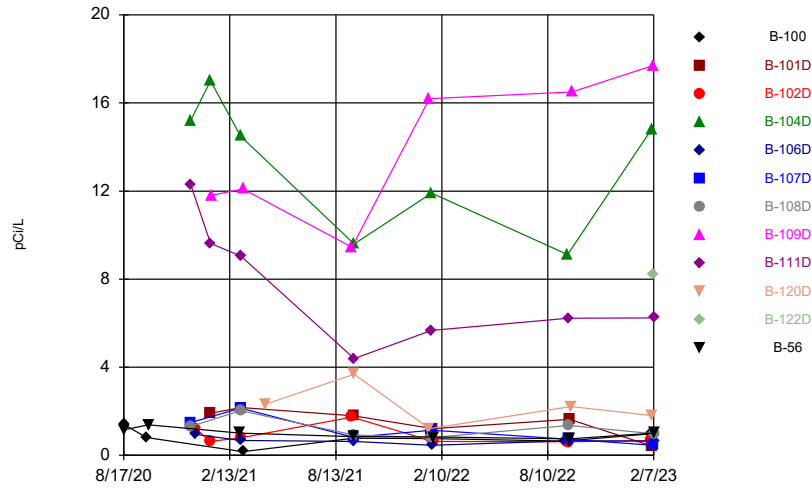
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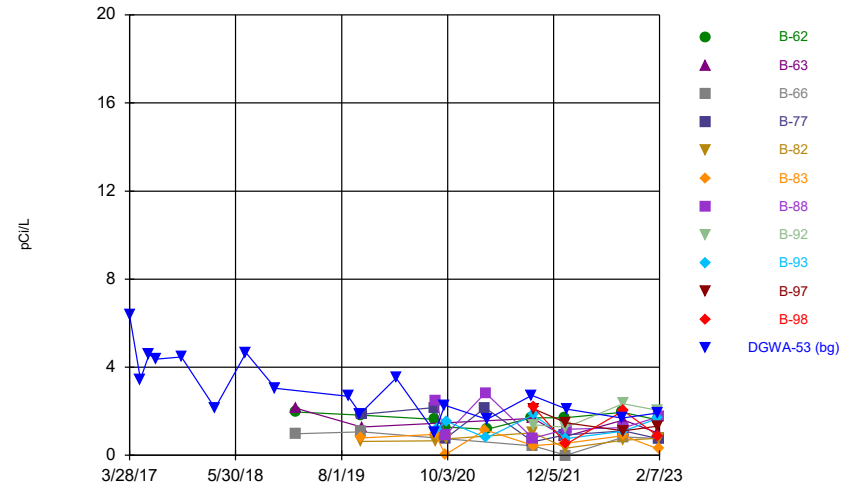
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### Time Series



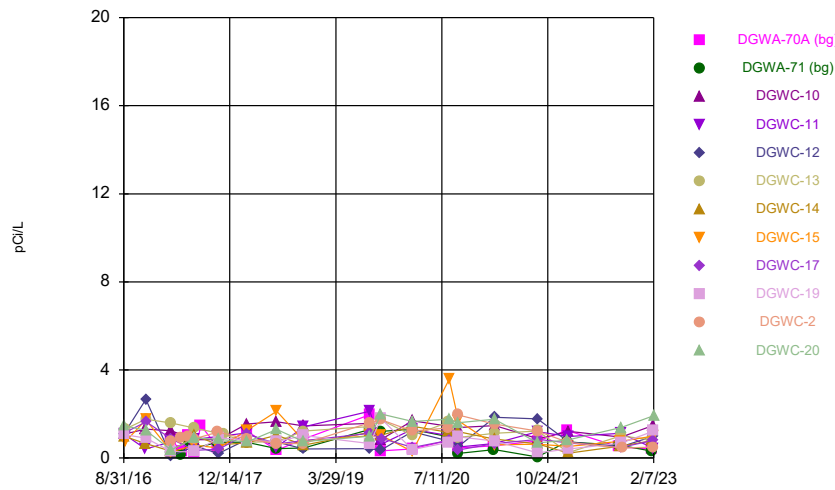
Constituent: Combined Radium 226 + 228 Analysis Run 5/4/2023 2:39 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



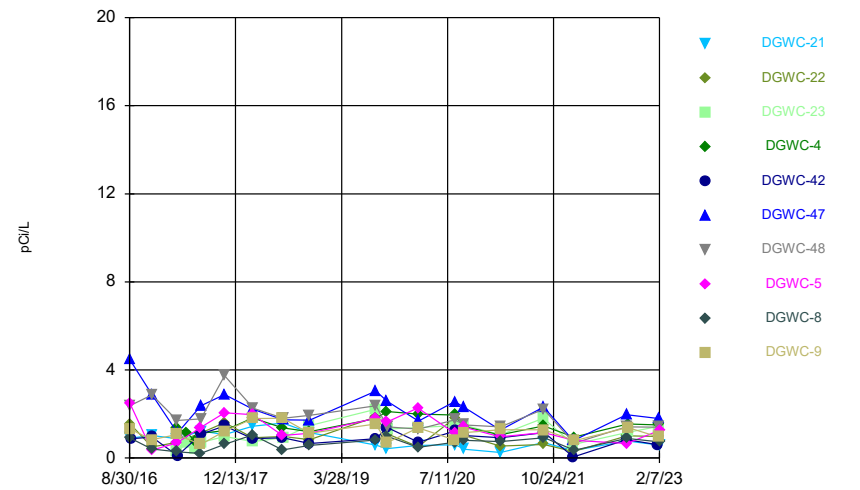
Constituent: Combined Radium 226 + 228 Analysis Run 5/4/2023 2:39 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



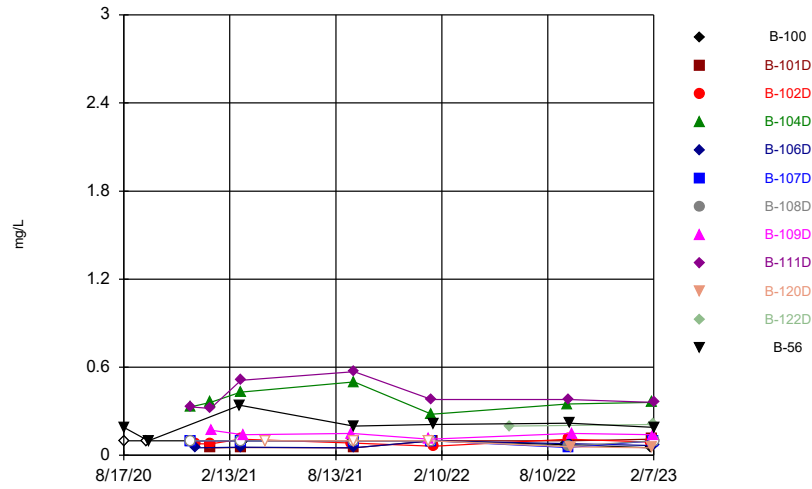
Constituent: Combined Radium 226 + 228 Analysis Run 5/4/2023 2:39 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



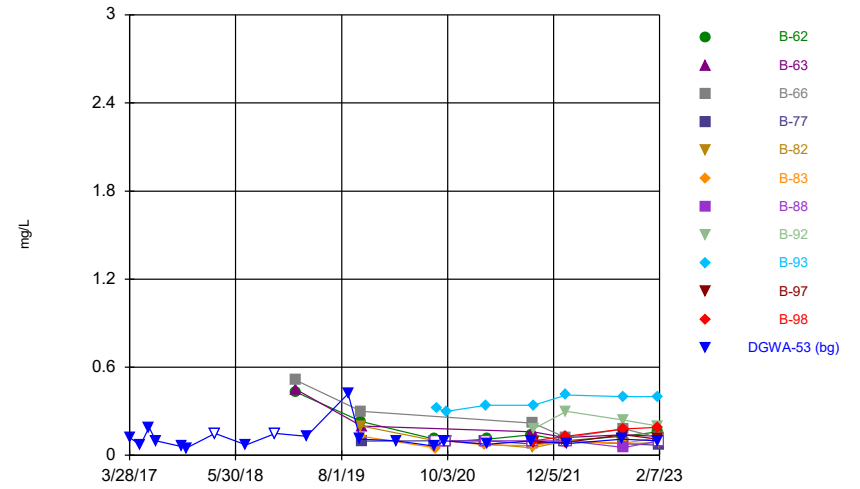
Constituent: Combined Radium 226 + 228 Analysis Run 5/4/2023 2:39 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



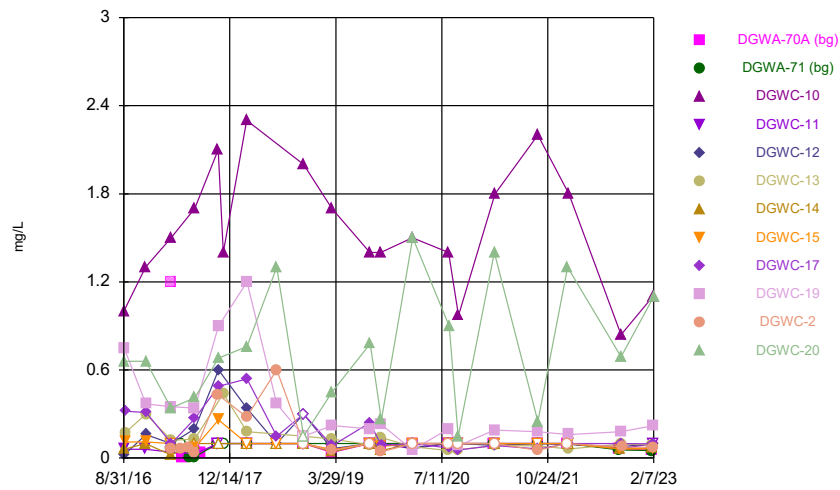
Constituent: Fluoride Analysis Run 5/4/2023 2:39 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



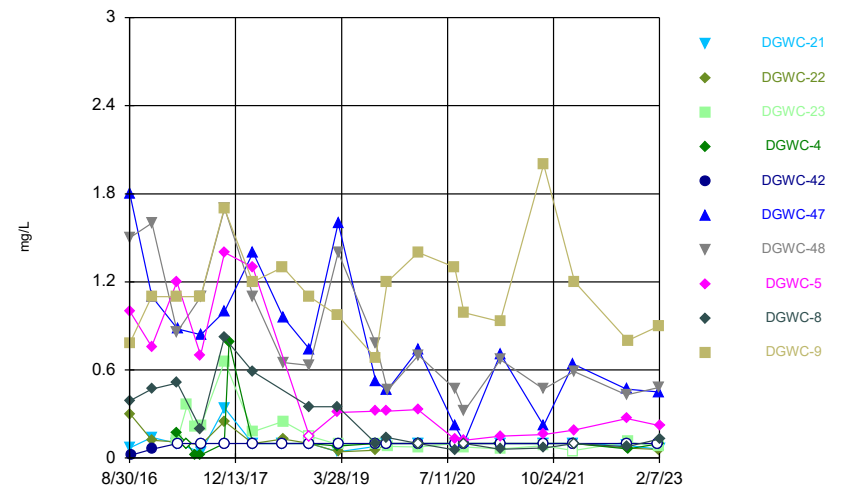
Constituent: Fluoride Analysis Run 5/4/2023 2:39 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



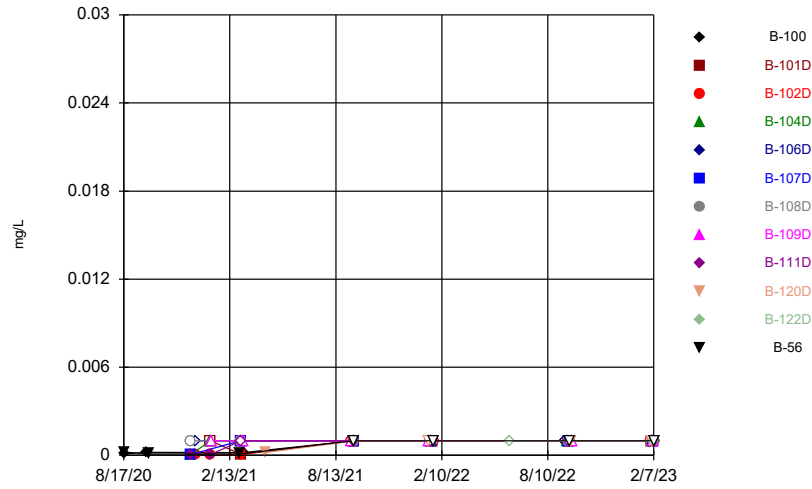
Constituent: Fluoride Analysis Run 5/4/2023 2:39 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



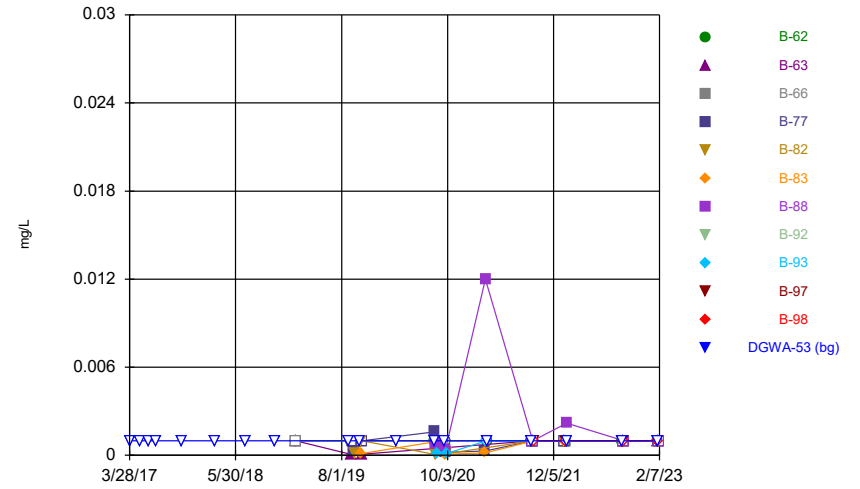
Constituent: Fluoride Analysis Run 5/4/2023 2:39 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



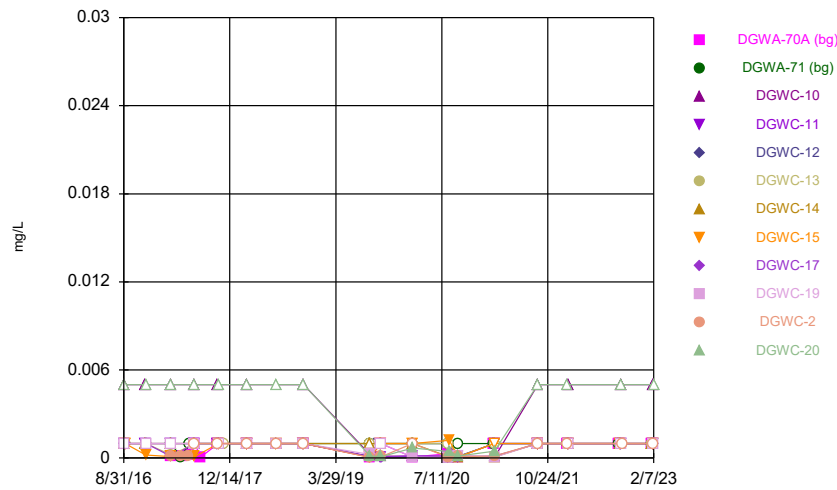
Constituent: Lead Analysis Run 5/4/2023 2:39 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



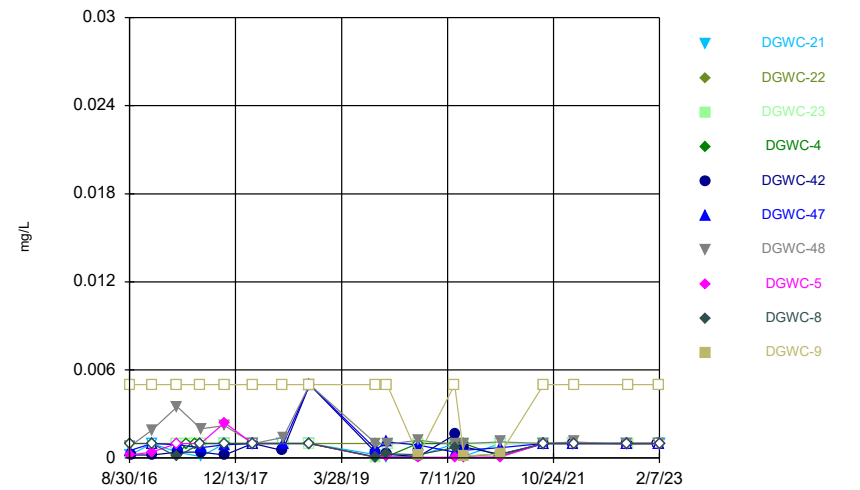
Constituent: Lead Analysis Run 5/4/2023 2:39 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



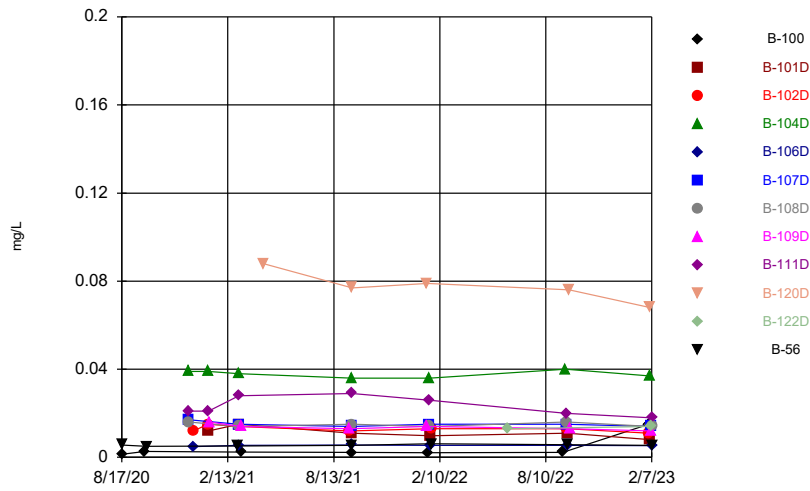
Constituent: Lead Analysis Run 5/4/2023 2:39 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



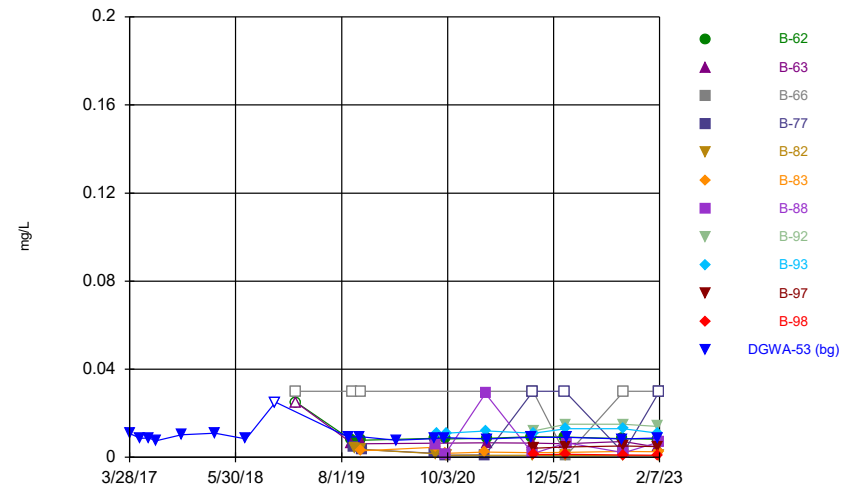
Constituent: Lead Analysis Run 5/4/2023 2:39 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



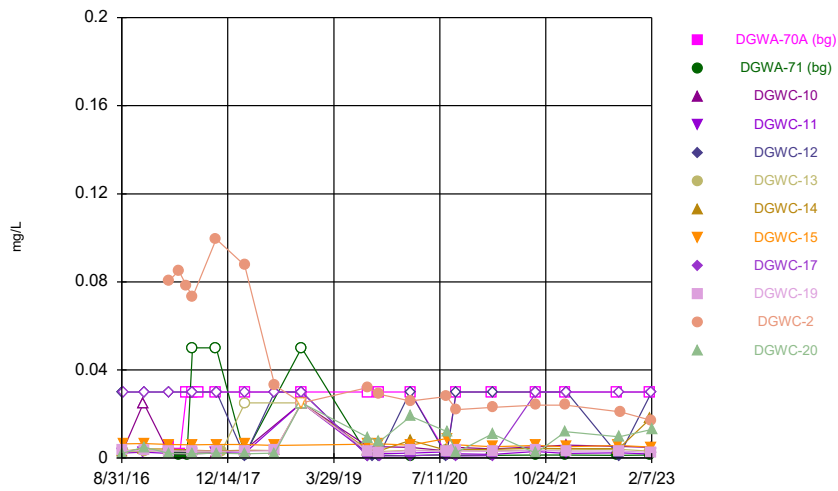
Constituent: Lithium Analysis Run 5/4/2023 2:39 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



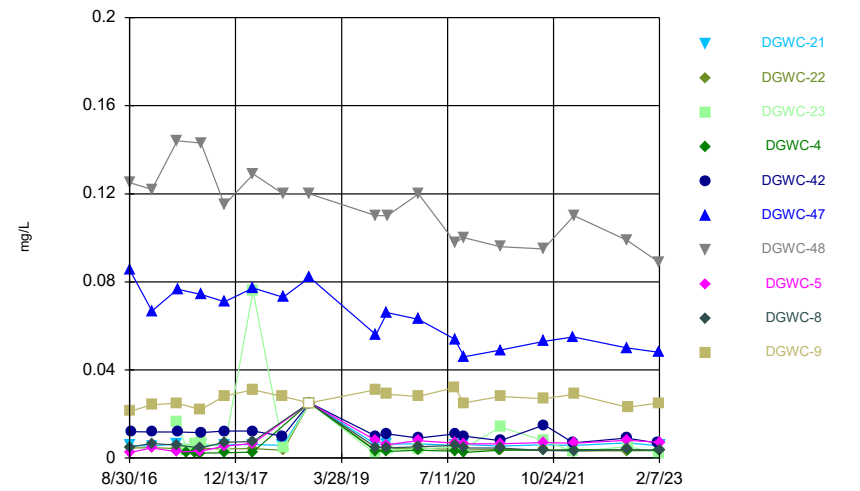
Constituent: Lithium Analysis Run 5/4/2023 2:39 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



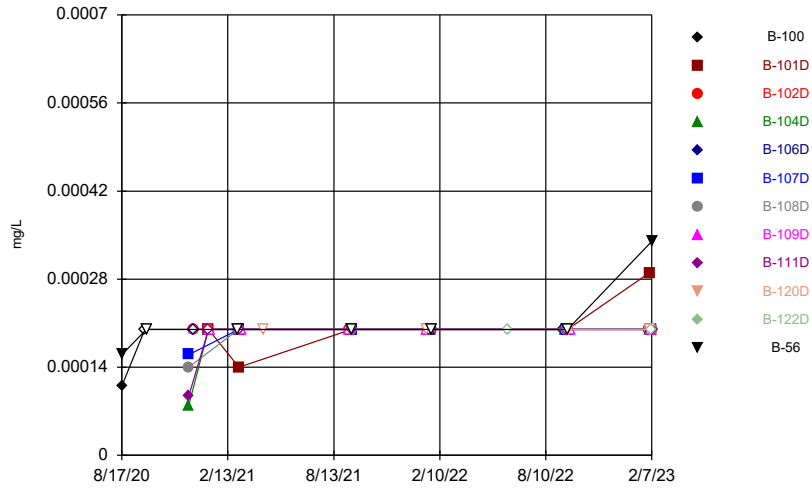
Constituent: Lithium Analysis Run 5/4/2023 2:39 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



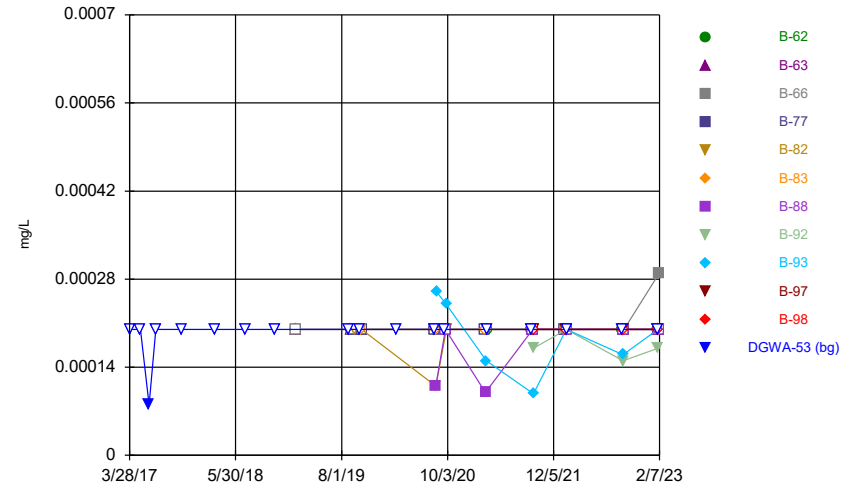
Constituent: Lithium Analysis Run 5/4/2023 2:39 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



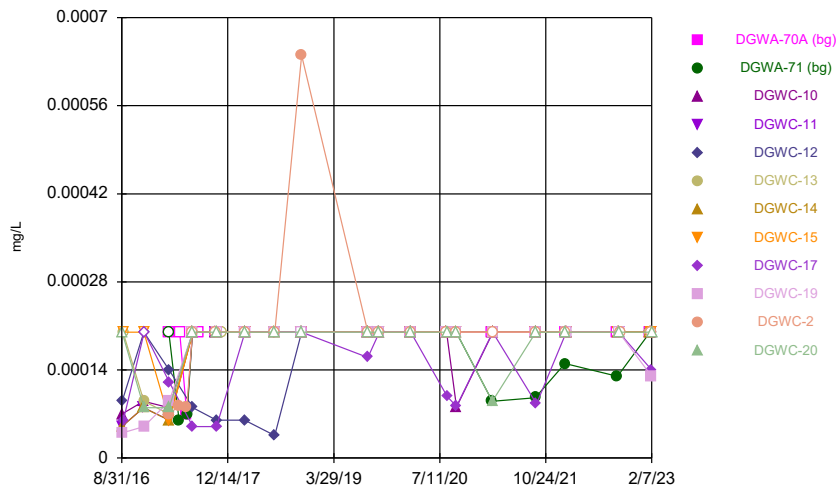
Constituent: Mercury Analysis Run 5/4/2023 2:39 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



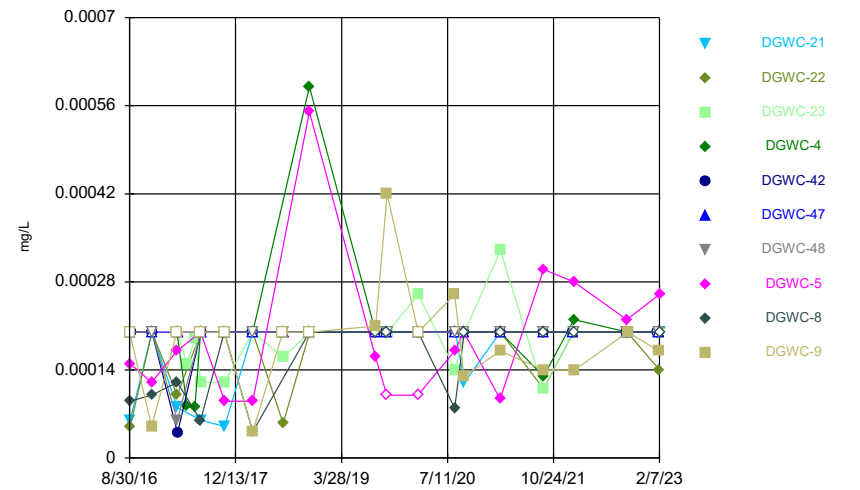
Constituent: Mercury Analysis Run 5/4/2023 2:39 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



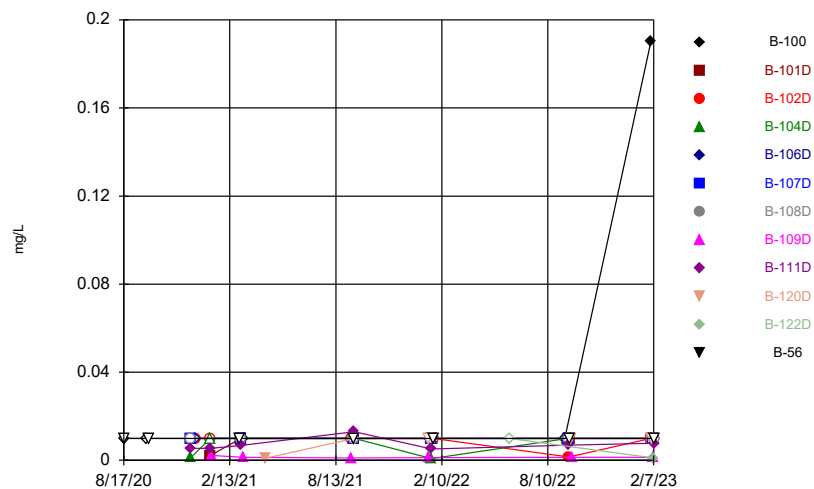
Constituent: Mercury Analysis Run 5/4/2023 2:39 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



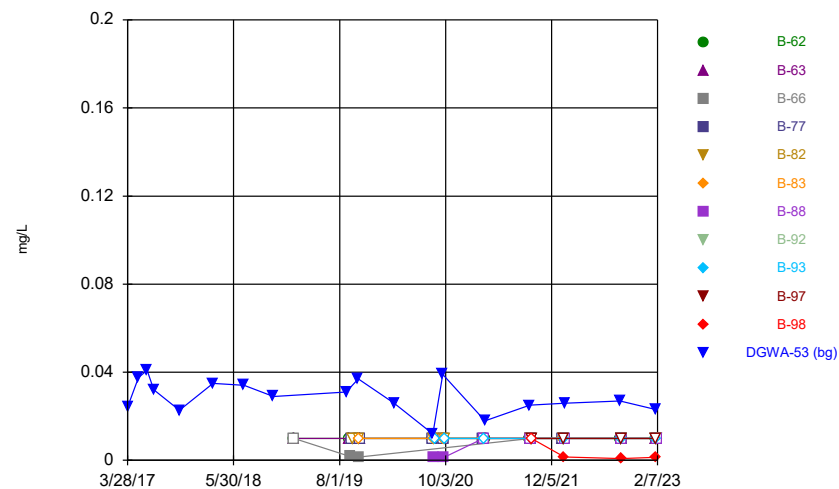
Constituent: Mercury Analysis Run 5/4/2023 2:39 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



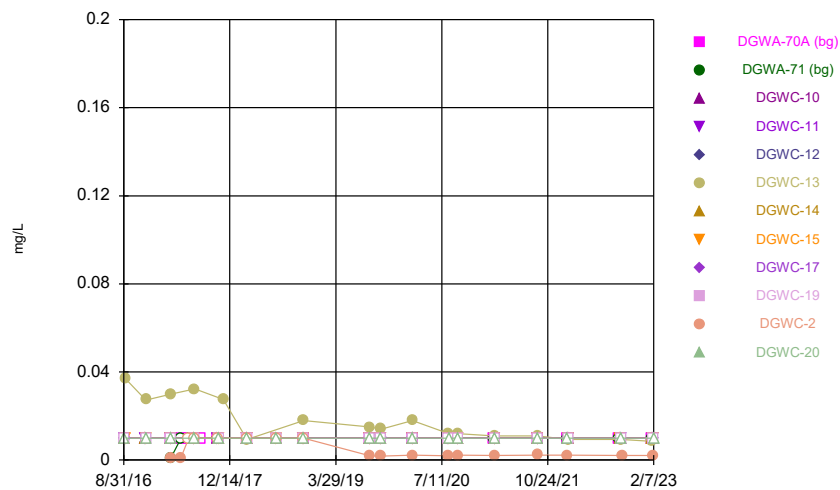
Constituent: Molybdenum Analysis Run 5/4/2023 2:39 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



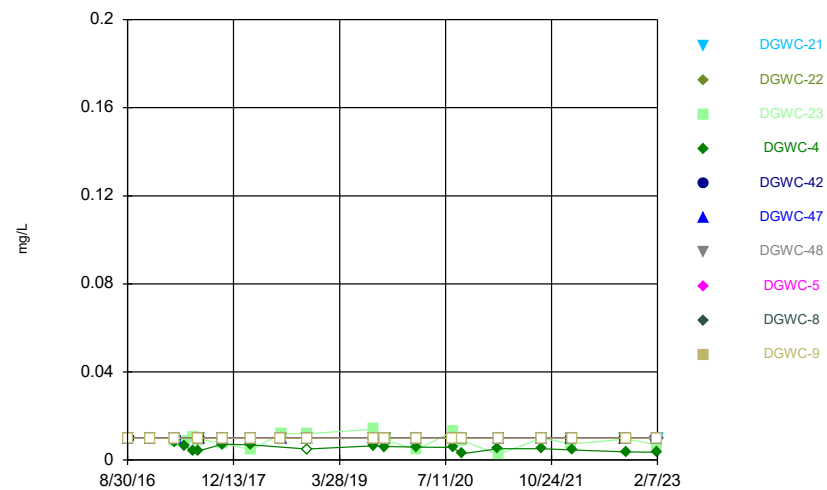
Constituent: Molybdenum Analysis Run 5/4/2023 2:39 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



Constituent: Molybdenum Analysis Run 5/4/2023 2:39 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

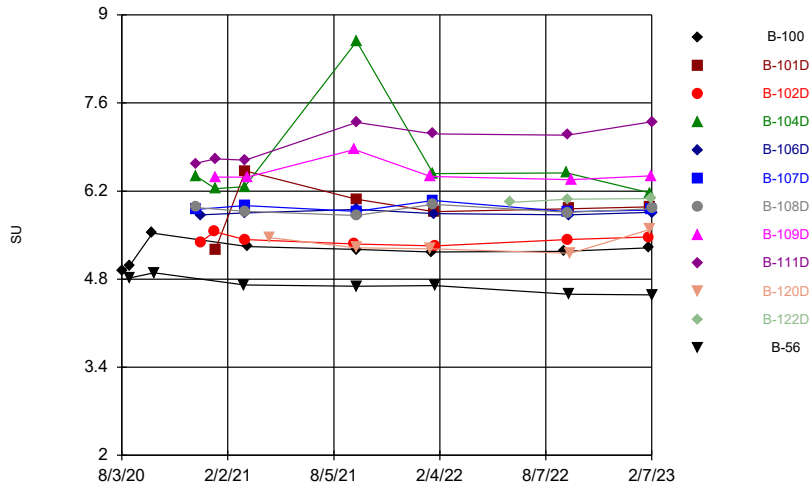
### Time Series



Constituent: Molybdenum Analysis Run 5/4/2023 2:40 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

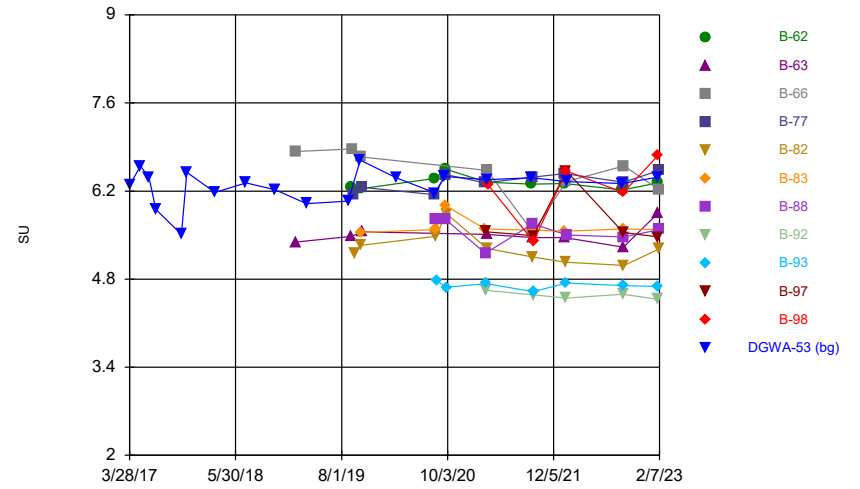


Time Series



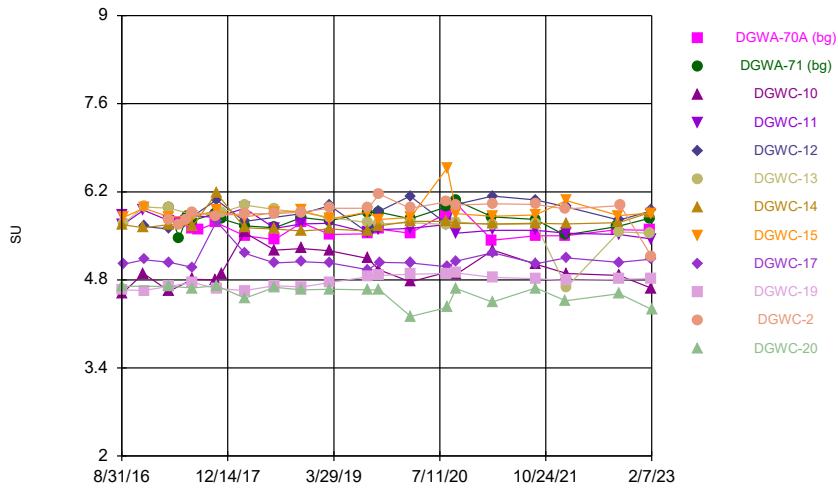
Constituent: pH, Field Analysis Run 5/4/2023 2:40 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



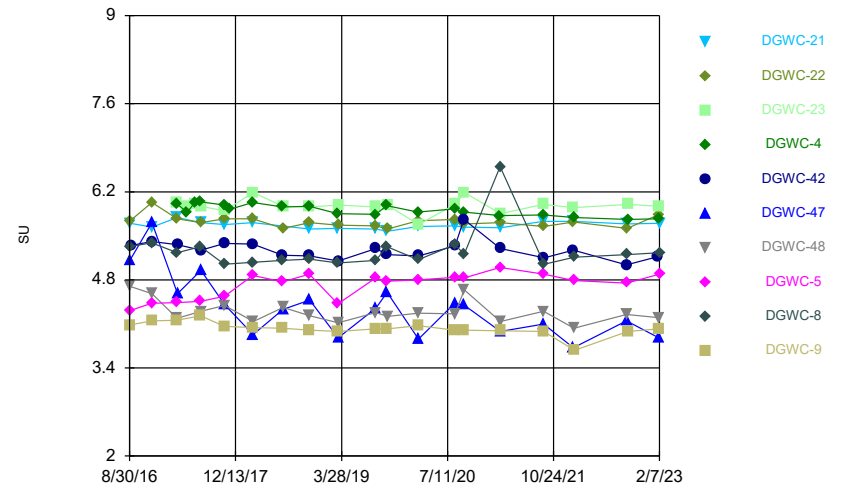
Constituent: pH, Field Analysis Run 5/4/2023 2:40 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



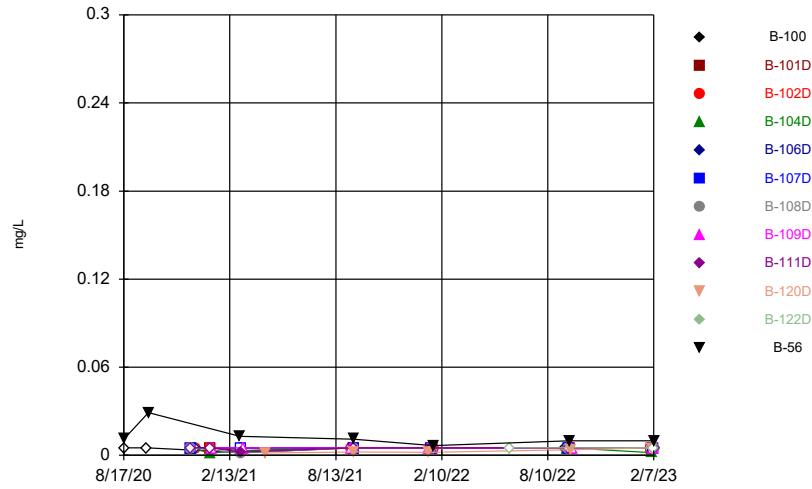
Constituent: pH, Field Analysis Run 5/4/2023 2:40 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



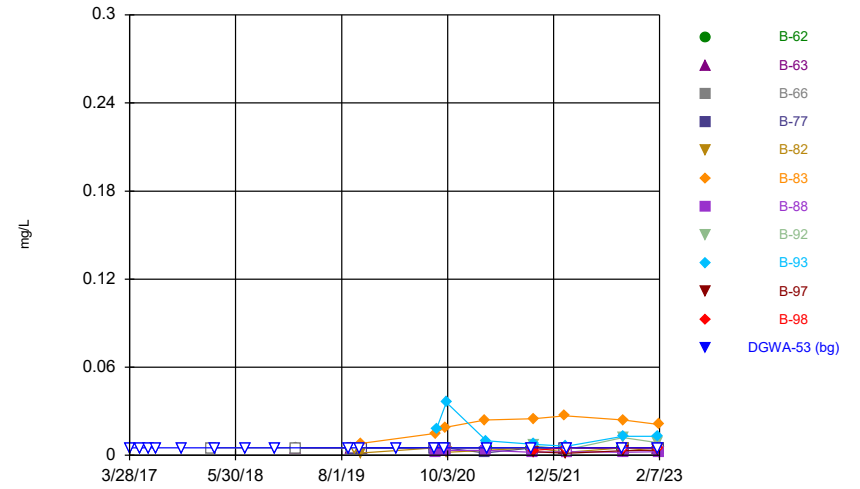
Constituent: pH, Field Analysis Run 5/4/2023 2:40 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



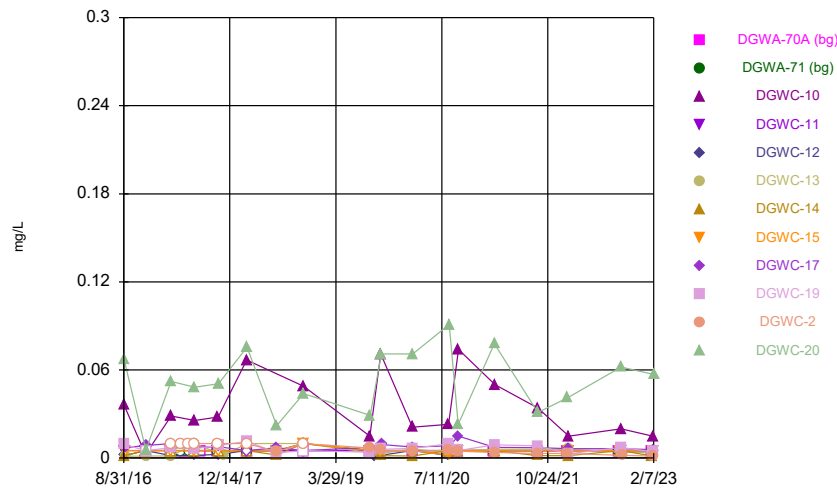
Constituent: Seleniun Analysis Run 5/4/2023 2:40 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



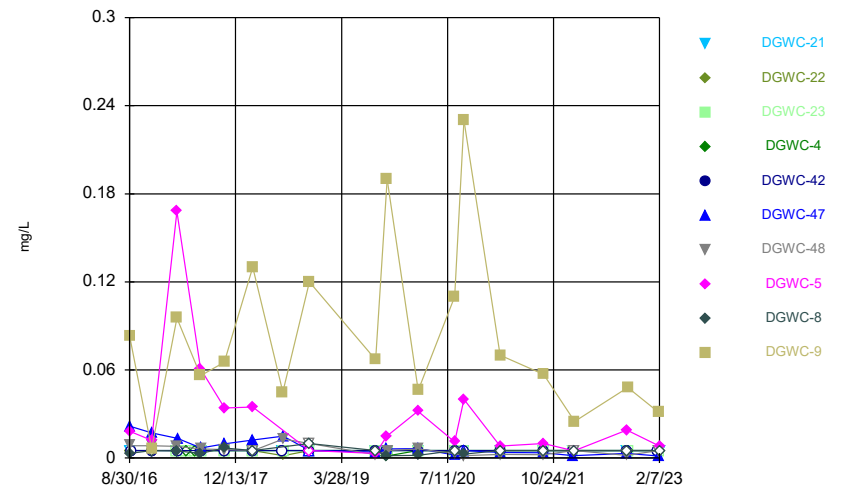
Constituent: Seleniun Analysis Run 5/4/2023 2:40 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



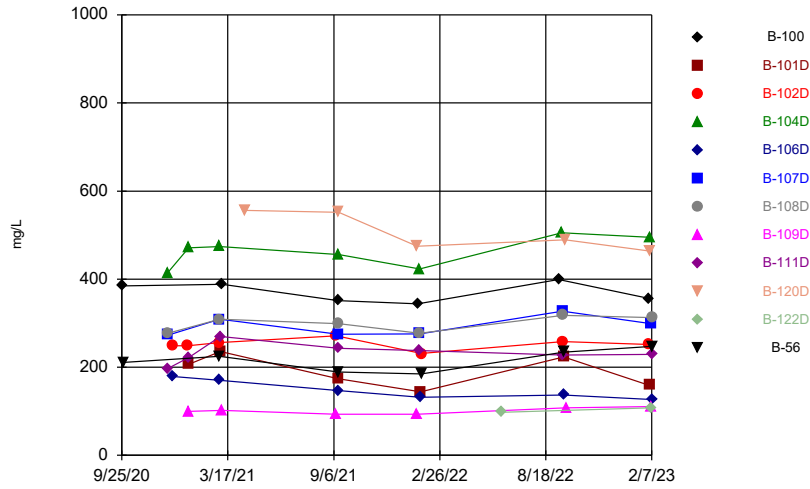
Constituent: Seleniun Analysis Run 5/4/2023 2:40 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



Constituent: Seleniun Analysis Run 5/4/2023 2:40 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

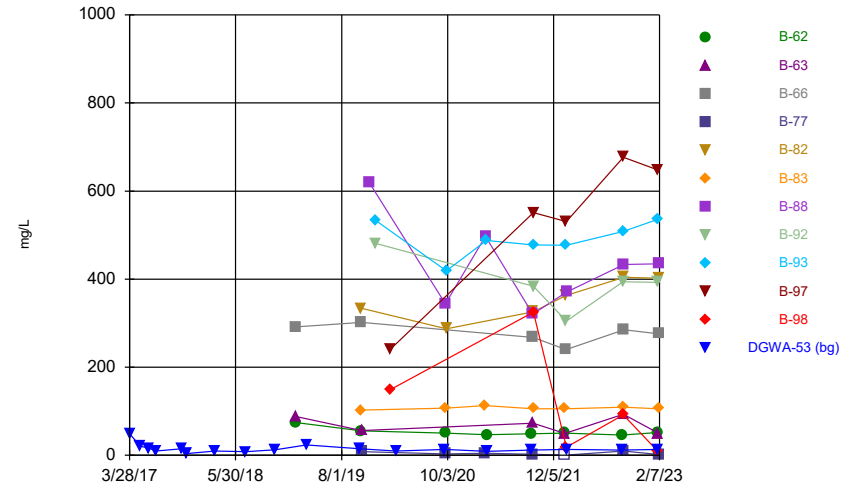
Time Series



Constituent: Sulfate Analysis Run 5/4/2023 2:40 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Hollow symbols indicate censored values.

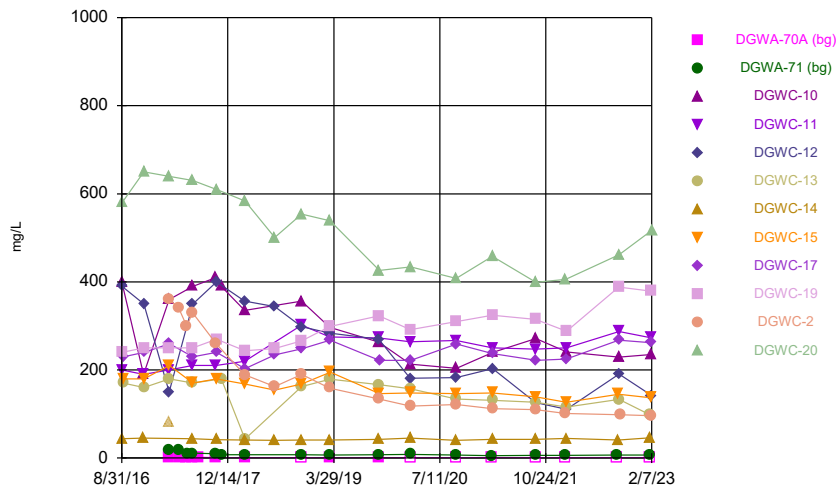
Time Series



Constituent: Sulfate Analysis Run 5/4/2023 2:40 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

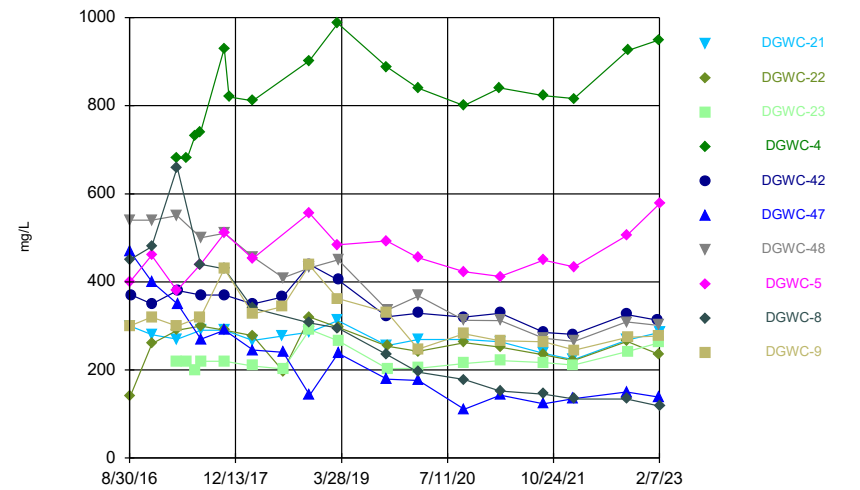
Hollow symbols indicate censored values.

Time Series



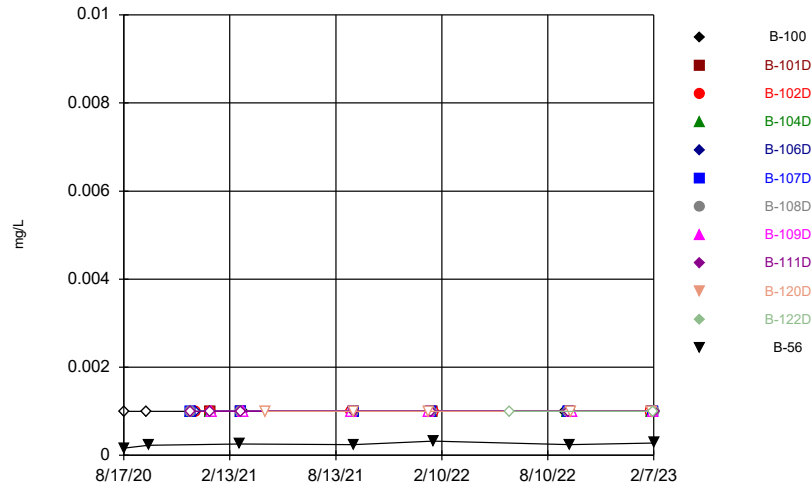
Constituent: Sulfate Analysis Run 5/4/2023 2:40 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



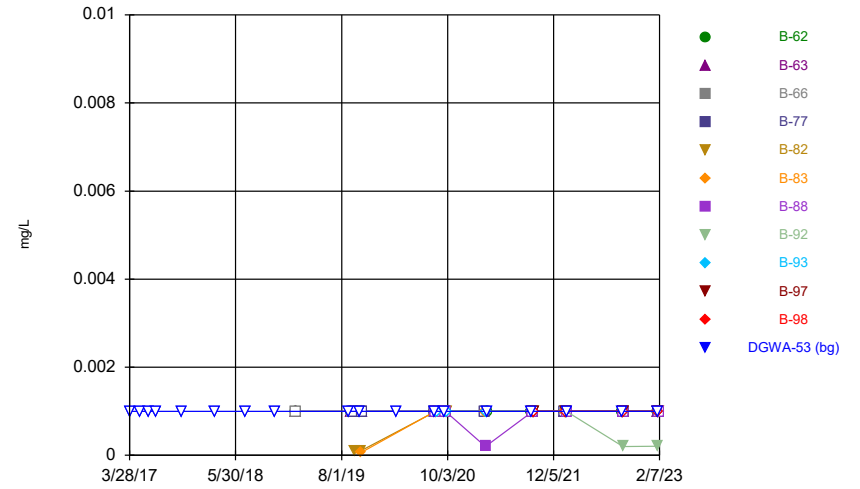
Constituent: Sulfate Analysis Run 5/4/2023 2:40 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



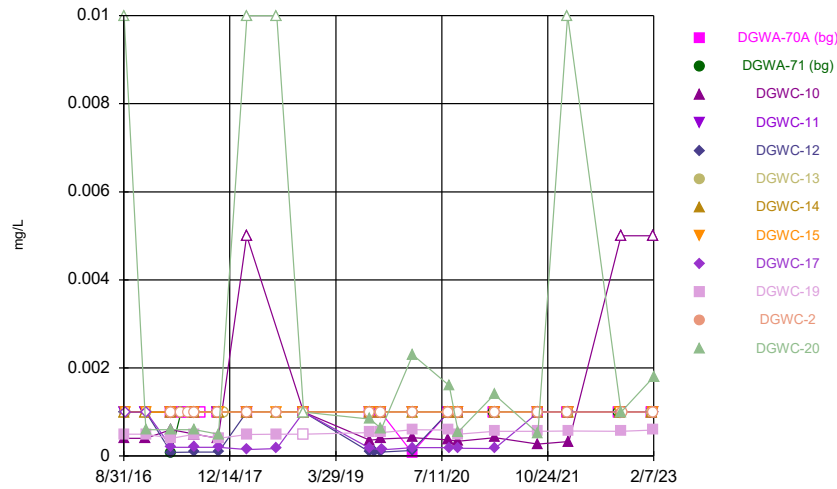
Constituent: Thallium Analysis Run 5/4/2023 2:40 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



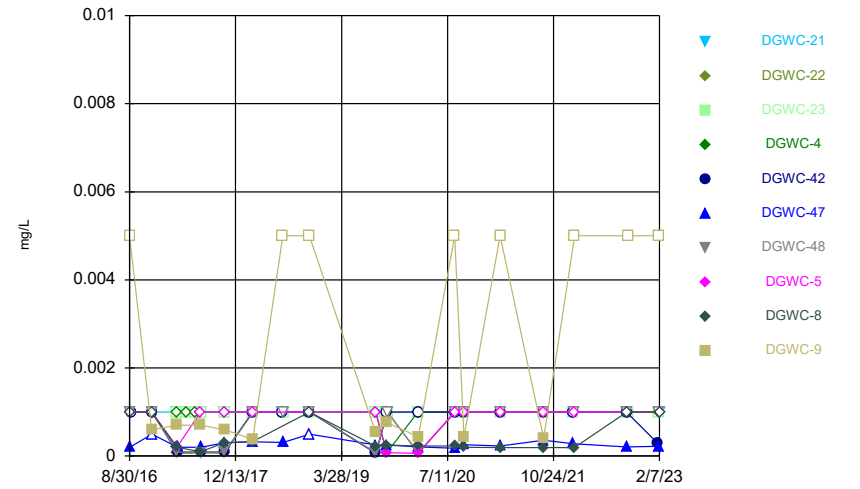
Constituent: Thallium Analysis Run 5/4/2023 2:40 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



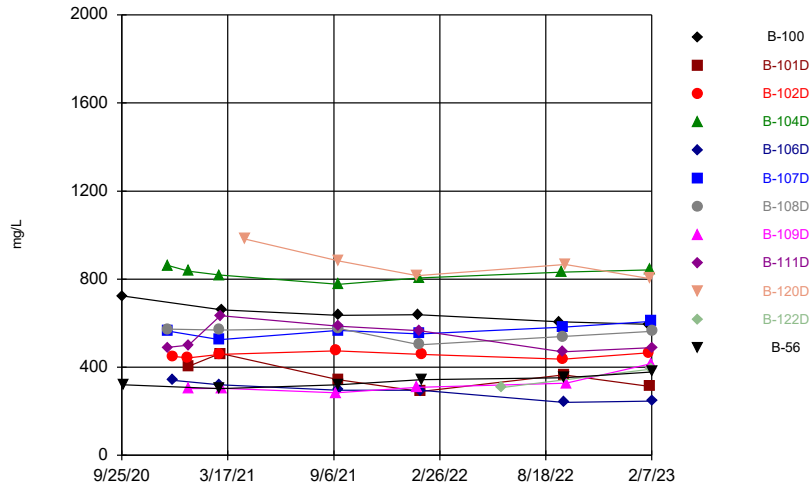
Constituent: Thallium Analysis Run 5/4/2023 2:40 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



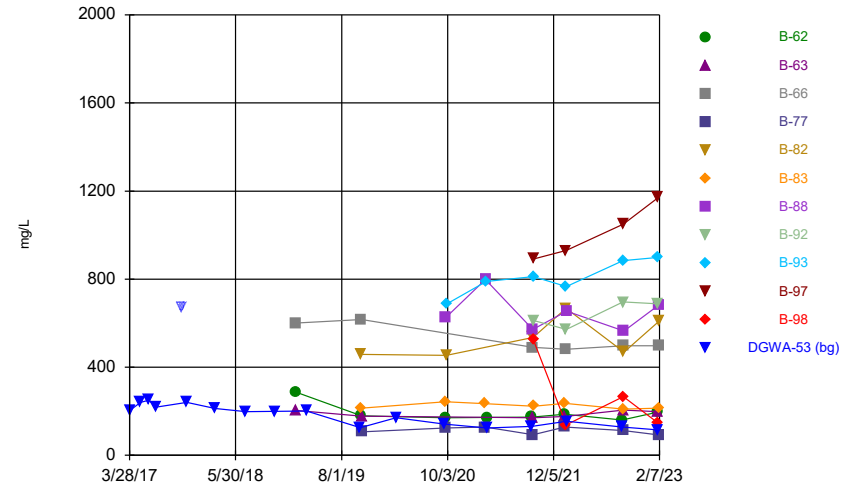
Constituent: Thallium Analysis Run 5/4/2023 2:40 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



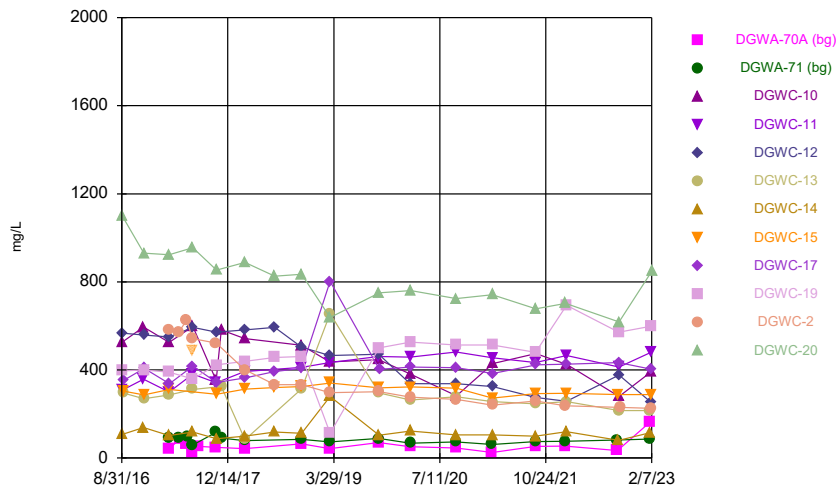
Constituent: Total Dissolved Solids Analysis Run 5/4/2023 2:40 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



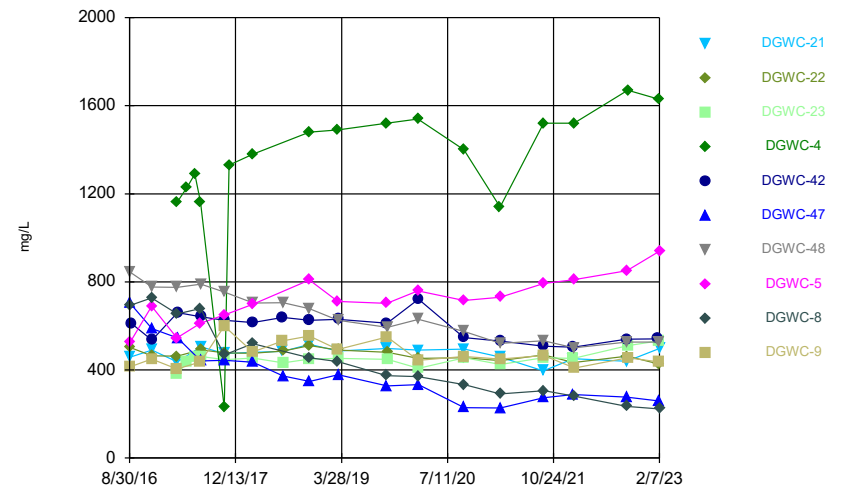
Constituent: Total Dissolved Solids Analysis Run 5/4/2023 2:40 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



Constituent: Total Dissolved Solids Analysis Run 5/4/2023 2:40 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



Constituent: Total Dissolved Solids Analysis Run 5/4/2023 2:40 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

# Time Series

Constituent: Antimony (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D
8/17/2020	0.0013 (J)								
9/25/2020	<0.003								
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	0.0017 (J)							0.00084 (J)	
4/15/2021									
9/10/2021			<0.003					0.004	
9/13/2021	<0.003	0.001 (J)			<0.003	<0.003			
9/14/2021				<0.003			<0.003		<0.003
1/20/2022								<0.003	
1/21/2022	<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						
6/6/2022									
9/8/2022	<0.003								
9/13/2022				<0.003					
9/14/2022						<0.003			<0.003
9/15/2022			<0.003				<0.003		
9/16/2022		<0.003			<0.003				
9/19/2022									
9/20/2022								<0.003	
2/2/2023	<0.003		<0.003						
2/3/2023		<0.003		<0.003					
2/6/2023						<0.003		<0.003	
2/7/2023					<0.003		<0.003		<0.003

# Time Series

Constituent: Antimony (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-122D	B-56
8/17/2020			<0.003
9/25/2020			
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			
4/15/2021	0.00029 (J)		
9/10/2021			
9/13/2021			<0.003
9/14/2021	<0.003		
1/20/2022	<0.003		
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022			0.0011 (J)
6/6/2022		<0.003	
9/8/2022			
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022			<0.003
9/19/2022	<0.003		
9/20/2022			
2/2/2023			
2/3/2023	<0.003		
2/6/2023		<0.003	
2/7/2023			<0.003

# Time Series

Constituent: Antimony (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93
3/28/2017									
5/11/2017									
6/15/2017									
7/12/2017									
10/24/2017									
3/8/2018									
7/12/2018									
11/7/2018									
1/28/2019		<0.003							
1/30/2019	<0.003		<0.003						
8/28/2019									
9/11/2019	<0.003	<0.003							
9/12/2019			<0.003						
9/18/2019				<0.003					
9/23/2019					<0.003				
10/16/2019									
10/21/2019	<0.003		<0.003		<0.003	<0.003			
10/22/2019		0.00066 (J)							
10/24/2019				<0.003					
3/9/2020									
8/13/2020	<0.003			0.00043 (J)					
8/14/2020						<0.003			
8/17/2020					<0.003		<0.003		
8/19/2020									<0.003
9/22/2020									
9/24/2020	0.00046 (J)			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
3/12/2021	<0.003								
9/9/2021	<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
9/16/2021						<0.003			
1/20/2022	<0.003	<0.003		<0.003					
1/21/2022						<0.003			
1/25/2022			<0.003		<0.003				
1/26/2022								<0.003	<0.003
1/27/2022							<0.003		
1/28/2022									
9/8/2022	<0.003								
9/12/2022								<0.003	0.00096 (J)
9/13/2022				<0.003		<0.003			
9/14/2022		<0.003							
9/16/2022			<0.003		<0.003		<0.003		
1/31/2023								<0.003	0.0015 (J)
2/1/2023									
2/2/2023	<0.003	<0.003							
2/3/2023						<0.003			



# Time Series

Constituent: Antimony (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93
2/6/2023				<0.003					
2/7/2023			<0.003		<0.003		<0.003		

# Time Series

Constituent: Antimony (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-97	B-98	DGWA-53 (bg)
3/28/2017			<0.003
5/11/2017			<0.003
6/15/2017			0.0006 (J)
7/12/2017			<0.003
10/24/2017			<0.003
3/8/2018			<0.003
7/12/2018			<0.003
11/7/2018			<0.003
1/28/2019			
1/30/2019			
8/28/2019			<0.003
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/16/2019			<0.003
10/21/2019			
10/22/2019			
10/24/2019			
3/9/2020			<0.003
8/13/2020			0.0003 (J)
8/14/2020			
8/17/2020			
8/19/2020			
9/22/2020			<0.003
9/24/2020			
9/25/2020			
9/28/2020			
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021			<0.003
9/9/2021			<0.003
9/13/2021			
9/14/2021			
9/15/2021	<0.003	<0.003	
9/16/2021			
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	<0.003	<0.003	
1/27/2022			
1/28/2022			<0.003
9/8/2022			<0.003
9/12/2022			
9/13/2022	<0.003	<0.003	
9/14/2022			
9/16/2022			
1/31/2023		0.001 (J)	
2/1/2023	<0.003		<0.003
2/2/2023			
2/3/2023			

# Time Series

Constituent: Antimony (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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B-97

B-98

DGWA-53 (bg)

2/6/2023

2/7/2023

# Time Series

Constituent: Antimony (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17
8/31/2016			<0.003	<0.003			<0.003		
9/1/2016					<0.003				
9/2/2016									
9/6/2016						<0.003		<0.003	
9/7/2016									<0.003
12/6/2016			<0.003	<0.003			<0.003		
12/7/2016					<0.003	<0.003		<0.003	
12/8/2016									<0.003
3/28/2017	<0.003	0.0007 (J)							
3/29/2017			<0.003	<0.003	<0.003		<0.003		
3/30/2017						<0.003		<0.003	<0.003
5/11/2017									
5/12/2017		<0.003							
5/15/2017	<0.003								
6/15/2017	<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					
10/25/2017					<0.003		<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	<0.003
7/11/2018					<0.003		<0.003	<0.003	<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	<0.003	<0.003
8/28/2019						<0.003		0.00033 (J)	
8/29/2019									
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		
10/17/2019								<0.003	
10/18/2019									<0.003
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									<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								0.00073 (J)	
8/14/2020									<0.003
9/22/2020	<0.003	<0.003		<0.003	<0.003		0.0011 (J)		
9/23/2020						<0.003		<0.003	
9/24/2020			<0.003						0.00045 (J)
3/1/2021	<0.003	0.0019 (J)							
3/2/2021				<0.003		<0.003	<0.003	<0.003	
3/3/2021					<0.003				<0.003
3/4/2021			<0.003						
9/8/2021		<0.003							
9/9/2021	0.0015 (J)			<0.003	<0.003	<0.003	<0.003	<0.003	
9/10/2021			<0.003						

# Time Series

Constituent: Antimony (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17
9/13/2021									<0.003
1/18/2022	<0.003	<0.003							
1/20/2022									
1/21/2022									
1/24/2022								<0.003	<0.003
1/25/2022				<0.003	<0.003	<0.003	<0.003		
1/26/2022			0.0021 (J)						
9/7/2022	<0.003	<0.003							
9/13/2022							<0.003	<0.003	
9/14/2022									<0.003
9/15/2022			<0.003	<0.003	<0.003	<0.003			
9/20/2022									
1/31/2023	<0.003	<0.003							
2/1/2023						<0.003	0.001 (J)		
2/2/2023			<0.003					<0.003	
2/6/2023				<0.003	<0.003				<0.003
2/7/2023									

# Time Series

Constituent: Antimony (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-2	DGWC-20
8/31/2016			
9/1/2016	<0.003		
9/2/2016			<0.003
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016	<0.003		<0.003
12/8/2016			
3/28/2017			
3/29/2017	<0.003		<0.003
3/30/2017		<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
7/11/2018	<0.003	<0.003	<0.003
11/6/2018		<0.003	
11/7/2018	<0.003		<0.003
8/27/2019		<0.003	
8/28/2019	<0.003		
8/29/2019			<0.003
9/17/2019			
10/15/2019			
10/16/2019	<0.003		
10/17/2019		<0.003	<0.003
10/18/2019			
3/2/2020			
3/3/2020	<0.003	<0.003	
3/4/2020			<0.003
8/11/2020	<0.003	<0.003	
8/12/2020			
8/13/2020			<0.003
8/14/2020			
9/22/2020	0.00036 (J)		<0.003
9/23/2020		<0.003	
9/24/2020			
3/1/2021			
3/2/2021	<0.003	<0.003	<0.003
3/3/2021			
3/4/2021			
9/8/2021			
9/9/2021	<0.003	<0.003	
9/10/2021			<0.003

# Time Series

Constituent: Antimony (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-2	DGWC-20
9/13/2021			
1/18/2022			
1/20/2022		<0.003	
1/21/2022			<0.003
1/24/2022			
1/25/2022	<0.003		
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022	<0.003		
9/15/2022			<0.003
9/20/2022		<0.003	
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	<0.003	<0.003	
2/7/2023			<0.003

# Time Series

Constituent: Antimony (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8
8/30/2016									<0.003
8/31/2016								<0.003	
9/1/2016						<0.003	<0.003		
9/2/2016	<0.003	<0.003							
9/7/2016				<0.003					
12/6/2016								<0.003	<0.003
12/8/2016	<0.003	<0.003			<0.003	<0.003	<0.003		
3/28/2017				<0.003				<0.003	
3/29/2017		<0.003							<0.003
3/30/2017	<0.003		<0.003				<0.003		
3/31/2017					<0.003	<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	<0.003
7/12/2017	<0.003		<0.003						
7/13/2017		<0.003			<0.003	<0.003	<0.003		
10/24/2017				<0.003					<0.003
10/25/2017	<0.003	<0.003			<0.003			<0.003	
10/26/2017			<0.003			<0.003	<0.003		
2/27/2018				<0.003				<0.003	<0.003
2/28/2018	<0.003	<0.003			<0.003				
3/1/2018			<0.003			<0.003			
3/2/2018							<0.003		
7/11/2018	0.0013 (J)				<0.003				
7/12/2018		<0.003	<0.003			<0.003	<0.003		
11/6/2018				<0.003				<0.003	<0.003
11/7/2018	<0.003	<0.003			<0.003	<0.003	<0.003		
11/8/2018			<0.003						
8/27/2019				<0.003				<0.003	
8/28/2019					<0.003				<0.003
8/29/2019	<0.003	<0.003	<0.003			<0.003	<0.003		
10/15/2019				<0.003					
10/16/2019								<0.003	<0.003
10/17/2019	<0.003				<0.003	<0.003			
10/18/2019		<0.003	<0.003				<0.003		
3/2/2020				0.00058 (J)				0.00032 (J)	
3/3/2020	<0.003	<0.003							<0.003
3/4/2020			<0.003		<0.003	<0.003	<0.003		
8/11/2020									
8/12/2020				<0.003		<0.003		<0.003	<0.003
8/13/2020			<0.003		<0.003		<0.003		
8/14/2020	<0.003	<0.003							
9/22/2020				<0.003	<0.003			<0.003	
9/23/2020						0.0012 (J)	0.00039 (J)		<0.003
9/24/2020	<0.003	<0.003	<0.003						
3/1/2021				0.00049 (J)					
3/2/2021								0.0015 (J)	0.00046 (J)
3/3/2021	<0.003	<0.003	<0.003		<0.003	<0.003	<0.003		
9/9/2021	<0.003		<0.003						
9/10/2021		<0.003		<0.003		<0.003	0.0018 (J)	<0.003	
9/13/2021					<0.003				<0.003
1/20/2022	<0.003	<0.003	<0.003		<0.003				



# Time Series

Constituent: Antimony (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8
1/21/2022						<0.003			
1/24/2022				<0.003			<0.003	<0.003	
1/25/2022									<0.003
1/26/2022									
9/13/2022					<0.003	<0.003	<0.003		
9/14/2022								<0.003	
9/15/2022	<0.003								<0.003
9/16/2022		<0.003							
9/19/2022				<0.003					
9/20/2022			<0.003						
2/1/2023					<0.003				
2/3/2023				<0.003		<0.003	<0.003		
2/6/2023		<0.003	<0.003						
2/7/2023	<0.003							<0.003	<0.003

# Time Series

Constituent: Antimony (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-9
8/30/2016	<0.003
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	<0.003
12/8/2016	
3/28/2017	<0.003
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	<0.003
7/12/2017	
7/13/2017	
10/24/2017	<0.003
10/25/2017	
10/26/2017	
2/27/2018	<0.003
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	<0.003
7/12/2018	
11/6/2018	<0.003
11/7/2018	
11/8/2018	
8/27/2019	<0.003
8/28/2019	
8/29/2019	
10/15/2019	
10/16/2019	
10/17/2019	<0.003
10/18/2019	
3/2/2020	
3/3/2020	<0.003
3/4/2020	
8/11/2020	<0.003
8/12/2020	
8/13/2020	
8/14/2020	
9/22/2020	<0.003
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	<0.003
3/3/2021	
9/9/2021	
9/10/2021	<0.003
9/13/2021	
1/20/2022	

# Time Series

Constituent: Antimony (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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DGWC-9

1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	<0.003
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	<0.003
9/20/2022	
2/1/2023	
2/3/2023	<0.003
2/6/2023	
2/7/2023	

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D
7/23/2020	<0.005								
8/17/2020	<0.005								
9/25/2020	<0.005								
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							<0.005	
4/15/2021									
9/10/2021			<0.005					<0.005	
9/13/2021	<0.005	<0.005			<0.005	<0.005			
9/14/2021				0.0019 (J)			<0.005		0.0029 (J)
1/20/2022								0.0026 (J)	
1/21/2022	<0.005								
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						
6/6/2022									
9/8/2022	<0.005								
9/13/2022				<0.005					
9/14/2022						<0.005			<0.005
9/15/2022			<0.005				<0.005		
9/16/2022		<0.005			<0.005				
9/19/2022									
9/20/2022								<0.005	
2/2/2023	<0.005		<0.005						
2/3/2023		<0.005		<0.005					
2/6/2023						<0.005		<0.005	
2/7/2023					<0.005		<0.005		<0.005

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-122D	B-56
7/23/2020			
8/17/2020			0.0032 (J)
9/25/2020			
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			
4/15/2021	<0.005		
9/10/2021			
9/13/2021			0.0031 (J)
9/14/2021	<0.005		
1/20/2022	0.0016 (J)		
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022			0.0045 (J)
6/6/2022		<0.005	
9/8/2022			
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022			<0.005
9/19/2022	<0.005		
9/20/2022			
2/2/2023			
2/3/2023	<0.005		
2/6/2023		<0.005	
2/7/2023			0.005 (J)

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93
11/22/2016			<0.005						
3/28/2017									
5/11/2017									
6/15/2017									
7/12/2017									
10/24/2017									
2/19/2018			<0.005						
3/8/2018									
7/12/2018									
11/7/2018									
1/28/2019		<0.005							
1/30/2019	<0.005		<0.005						
8/28/2019									
9/11/2019	<0.005	<0.005							
9/12/2019			<0.005						
9/18/2019				<0.005					
9/23/2019					<0.005				
10/16/2019									
10/21/2019	<0.005		<0.005		<0.005	<0.005			
10/22/2019		<0.005							
10/24/2019				0.0029 (J)					
3/9/2020									
8/13/2020	<0.005			0.002 (J)					
8/14/2020						<0.005			
8/17/2020					<0.005		<0.005		
8/19/2020									0.0013 (J)
9/22/2020									
9/24/2020	<0.005			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		<0.005				
9/9/2021	<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
9/16/2021						<0.005			
1/20/2022	0.0033 (J)	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)
1/27/2022							<0.005		
1/28/2022									
9/8/2022	<0.005								
9/12/2022								<0.005	<0.005
9/13/2022				<0.005		<0.005			
9/14/2022		<0.005							
9/16/2022			<0.005 (D)		<0.005 (D)		<0.005		
1/31/2023								0.0023 (J)	0.0028 (J)
2/1/2023									

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93
2/2/2023	<0.005	<0.005							
2/3/2023						<0.005			
2/6/2023				<0.005					
2/7/2023			<0.005		0.004 (J)		<0.005		

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-97	B-98	DGWA-53 (bg)
11/22/2016			
3/28/2017			0.0005 (J)
5/11/2017			0.0005 (J)
6/15/2017			<0.005
7/12/2017			<0.005
10/24/2017			<0.005
2/19/2018			
3/8/2018			<0.005
7/12/2018			<0.005
11/7/2018			<0.005 (J)
1/28/2019			
1/30/2019			
8/28/2019			<0.005
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/16/2019			0.0018 (J)
10/21/2019			
10/22/2019			
10/24/2019			
3/9/2020			0.00068 (J)
8/13/2020			<0.005
8/14/2020			
8/17/2020			
8/19/2020			
9/22/2020			0.00093 (J)
9/24/2020			
9/25/2020			
9/28/2020			
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021			<0.005
9/9/2021			<0.005
9/13/2021			
9/14/2021			
9/15/2021	<0.005	<0.005	
9/16/2021			
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	0.0014 (J)	<0.005	
1/27/2022			
1/28/2022			0.0024 (J)
9/8/2022			0.0029 (J)
9/12/2022			
9/13/2022	<0.005	<0.005	
9/14/2022			
9/16/2022			
1/31/2023		<0.005	
2/1/2023	<0.005		0.0029 (J)



# Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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B-97

B-98

DGWA-53 (bg)

2/2/2023

2/3/2023

2/6/2023

2/7/2023

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17
8/31/2016			0.0058	<0.005			<0.005		
9/1/2016					<0.005				
9/2/2016									
9/6/2016						<0.005		<0.005	
9/7/2016									<0.005
12/6/2016			0.0017 (J)	<0.005			<0.005		
12/7/2016					<0.005	<0.005		<0.005	
12/8/2016									<0.005
3/28/2017	<0.005	<0.005							
3/29/2017			0.0055	<0.005	<0.005		<0.005		
3/30/2017						<0.005		0.0006 (J)	0.0008 (J)
5/11/2017									
5/12/2017		0.0004 (J)							
5/15/2017	<0.005								
6/15/2017	<0.005								
6/16/2017		<0.005							
7/11/2017	<0.005	<0.005							
7/12/2017			0.0042 (J)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
8/8/2017	<0.005								
10/24/2017	<0.005	<0.005	0.0058	<0.005					
10/25/2017					0.0006 (J)		<0.005	<0.005	0.0007 (J)
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	0.00073 (J)
7/11/2018					<0.005		<0.005	<0.005	<0.005
11/6/2018	<0.005	<0.005	<0.005 (J)	<0.005					
11/7/2018					<0.005	<0.005	<0.005	<0.005	<0.005
8/27/2019	<0.005	<0.005	0.0024 (J)	<0.005	<0.005		<0.005	<0.005	<0.005
8/28/2019						<0.005		<0.005	
8/29/2019									
9/17/2019					<0.005				
10/15/2019	0.00052 (J)	0.00071 (J)	0.0078	<0.005	0.00063 (J)				
10/16/2019						<0.005	0.00039 (J)		
10/17/2019								0.00064 (J)	
10/18/2019									0.0012 (J)
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									0.0014 (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								0.0013 (J)	
8/14/2020									<0.005
9/22/2020	<0.005	<0.005		<0.005	<0.005		<0.005		
9/23/2020						<0.005		<0.005	
9/24/2020			0.0078						0.0011 (J)
3/1/2021	<0.005	<0.005							
3/2/2021				<0.005		<0.005	<0.005	<0.005	
3/3/2021					<0.005				<0.005
3/4/2021			0.006						
9/8/2021		<0.005							
9/9/2021	<0.005			<0.005	<0.005	<0.005	<0.005	<0.005	
9/10/2021			0.0076						

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17
9/13/2021									<0.005
1/18/2022	0.0046 (J)	0.0054							
1/20/2022									
1/21/2022									
1/24/2022								<0.005	0.0014 (J)
1/25/2022				<0.005	<0.005	<0.005	<0.005		
1/26/2022			0.0043 (J)						
9/7/2022	0.0024 (J)	<0.005							
9/13/2022							<0.005	<0.005	
9/14/2022									<0.005
9/15/2022			0.0024 (J)	<0.005	<0.005	<0.005			
9/20/2022									
1/31/2023	<0.005	<0.005							
2/1/2023						<0.005	<0.005		
2/2/2023			0.0036 (J)					<0.005	
2/6/2023				<0.005	<0.005				<0.005
2/7/2023									

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-2	DGWC-20
8/31/2016			
9/1/2016	0.0022 (J)		
9/2/2016			0.0159
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016	<0.005		0.0037 (J)
12/8/2016			
3/28/2017			
3/29/2017	0.002 (J)		0.015
3/30/2017		<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	0.0016 (J)		0.0121
8/8/2017			
10/24/2017		<0.005	
10/25/2017	0.0022 (J)		0.0135
11/15/2017			
2/27/2018		<0.005	
2/28/2018	0.0028 (J)		0.0177
7/11/2018	0.0009 (J)	<0.005	0.0055
11/6/2018		<0.005	
11/7/2018	<0.005 (J)		0.0054
8/27/2019		0.00099 (J)	
8/28/2019	0.00049 (J)		
8/29/2019			0.0064
9/17/2019			
10/15/2019			
10/16/2019	0.00046 (J)		
10/17/2019		<0.005	0.0094
10/18/2019			
3/2/2020			
3/3/2020	<0.005	0.0025 (J)	
3/4/2020			0.029
8/11/2020	0.0014 (J)	<0.005	
8/12/2020			
8/13/2020			0.014
8/14/2020			
9/22/2020	0.0017 (J)		0.0063
9/23/2020		<0.005	
9/24/2020			
3/1/2021			
3/2/2021	0.0013 (J)	<0.005	0.019
3/3/2021			
3/4/2021			
9/8/2021			
9/9/2021	0.0027 (J)	<0.005	
9/10/2021			0.0083

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-2	DGWC-20
9/13/2021			
1/18/2022			
1/20/2022		0.0023 (J)	
1/21/2022			0.015
1/24/2022			
1/25/2022	0.0014 (J)		
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022	<0.005		
9/15/2022			0.016
9/20/2022		<0.005	
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	<0.005	<0.005	
2/7/2023			0.023

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8
8/30/2016									<0.005
8/31/2016								0.0035 (J)	
9/1/2016						0.0037 (J)	<0.005		
9/2/2016	<0.005	<0.005							
9/7/2016					<0.005				
12/6/2016								0.0032 (J)	<0.005
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		<0.005							0.001 (J)
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	0.0012 (J)
7/12/2017	<0.005		<0.005						
7/13/2017		<0.005			<0.005	0.0018 (J)	0.0012 (J)		
10/24/2017				<0.005					0.0015 (J)
10/25/2017	<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	0.002 (J)
2/28/2018	<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	<0.005				<0.005				
7/12/2018		<0.005	<0.005			0.0023 (J)	0.0015 (J)		
11/6/2018				<0.005				<0.005	<0.005
11/7/2018	<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				<0.005
8/29/2019	<0.005	<0.005	<0.005			0.00089 (J)	<0.005		
10/15/2019				<0.005					
10/16/2019								0.0036 (J)	<0.005
10/17/2019	<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							0.00096 (J)
3/4/2020			<0.005		<0.005	0.0012 (J)	0.0006 (J)		
8/11/2020									
8/12/2020				<0.005		0.00081 (J)		0.002 (J)	<0.005
8/13/2020			<0.005		<0.005		<0.005		
8/14/2020	<0.005	<0.005							
9/22/2020				<0.005	<0.005			0.0062	
9/23/2020						<0.005	<0.005		<0.005
9/24/2020	<0.005	<0.005	<0.005						
3/1/2021				<0.005					
3/2/2021								0.0013 (J)	<0.005
3/3/2021	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005		
9/9/2021	<0.005		<0.005						
9/10/2021		<0.005		<0.005		0.0016 (J)	<0.005	0.0031 (J)	
9/13/2021					<0.005				<0.005
1/20/2022	<0.005	<0.005	<0.005		<0.005				

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8
1/21/2022						0.0036 (J)			
1/24/2022				0.0011 (J)			<0.005	0.0019 (J)	
1/25/2022									<0.005
1/26/2022									
9/13/2022					<0.005	<0.005	<0.005		
9/14/2022								0.0038 (J)	
9/15/2022	<0.005								<0.005
9/16/2022		<0.005							
9/19/2022				<0.005					
9/20/2022			<0.005						
2/1/2023					<0.005				
2/3/2023				<0.005		<0.005	<0.005		
2/6/2023		<0.005	<0.005						
2/7/2023	<0.005							0.0036 (J)	<0.005

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-9
8/30/2016	0.0241
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	<0.005
12/8/2016	
3/28/2017	0.0243
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	0.0194
7/12/2017	
7/13/2017	
10/24/2017	0.0249
10/25/2017	
10/26/2017	
2/27/2018	0.0405
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	0.016
7/12/2018	
11/6/2018	0.017
11/7/2018	
11/8/2018	
8/27/2019	0.021
8/28/2019	
8/29/2019	
10/15/2019	
10/16/2019	
10/17/2019	0.033
10/18/2019	
3/2/2020	
3/3/2020	0.015
3/4/2020	
8/11/2020	0.022
8/12/2020	
8/13/2020	
8/14/2020	
9/22/2020	0.04
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	0.021
3/3/2021	
9/9/2021	
9/10/2021	0.031
9/13/2021	
1/20/2022	



# Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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DGWC-9

1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	0.012
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	0.016
9/20/2022	
2/1/2023	
2/3/2023	0.014
2/6/2023	
2/7/2023	

# Time Series

Constituent: Barium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D
8/17/2020	0.015								
9/25/2020	0.022								
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	0.022							0.056	
4/15/2021									
9/10/2021			0.02					0.022	
9/13/2021	0.021	0.076			0.02	0.087			
9/14/2021				0.021			0.06		0.043
1/20/2022								0.047	
1/21/2022	0.023								
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						
6/6/2022									
9/8/2022	0.021								
9/13/2022				0.021					
9/14/2022						0.057			0.028
9/15/2022			0.019				0.054		
9/16/2022		0.063			0.021				
9/19/2022									
9/20/2022								0.055	
2/2/2023	0.098		0.02						
2/3/2023		0.048		0.017					
2/6/2023						0.049		0.057	
2/7/2023					0.022		0.051		0.028

# Time Series

Constituent: Barium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-122D	B-56
8/17/2020			0.03
9/25/2020			
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			
4/15/2021	0.044		
9/10/2021			
9/13/2021			0.026
9/14/2021	0.031		
1/20/2022	0.025		
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022			0.03
6/6/2022		0.039	
9/8/2022			
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022			0.028
9/19/2022	0.023		
9/20/2022			
2/2/2023			
2/3/2023	0.021		
2/6/2023		0.04	
2/7/2023			0.027

# Time Series

Constituent: Barium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93
3/28/2017									
5/11/2017									
6/15/2017									
7/12/2017									
10/24/2017									
3/8/2018									
7/12/2018									
11/7/2018									
1/28/2019		0.028							
1/30/2019	0.018		0.016						
8/28/2019									
9/11/2019	0.023	0.021							
9/12/2019			0.017						
9/18/2019				0.086					
9/23/2019					0.031				
10/16/2019									
10/21/2019	0.026		0.018		0.03	0.034			
10/22/2019		0.021							
10/24/2019				0.1					
3/9/2020									
8/13/2020	0.026			0.11					
8/14/2020						0.056			
8/17/2020					0.024		0.022		
8/19/2020									0.018
9/22/2020									
9/24/2020	0.025			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)
3/12/2021	0.027								
9/9/2021	0.021								
9/13/2021							0.016		
9/14/2021		0.026	0.018	0.12	0.022				
9/15/2021								0.015	0.016
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				
1/26/2022								0.016	0.021
1/27/2022							0.018		
1/28/2022									
9/8/2022	0.018								
9/12/2022								0.017	0.015
9/13/2022				0.089		0.025			
9/14/2022		0.032							
9/16/2022			0.02		0.02		0.016		
1/31/2023								0.015	0.015
2/1/2023									
2/2/2023	0.019	0.056							
2/3/2023						0.024			

# Time Series

Constituent: Barium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93
2/6/2023				0.11					
2/7/2023			0.023		0.023		0.017		

# Time Series

Constituent: Barium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-97	B-98	DGWA-53 (bg)
3/28/2017			0.134
5/11/2017			0.126
6/15/2017			0.14
7/12/2017			0.173
10/24/2017			0.109
3/8/2018			0.19
7/12/2018			0.18
11/7/2018			0.15
1/28/2019			
1/30/2019			
8/28/2019			0.087
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/16/2019			0.077
10/21/2019			
10/22/2019			
10/24/2019			
3/9/2020			0.099
8/13/2020			0.046
8/14/2020			
8/17/2020			
8/19/2020			
9/22/2020			0.07
9/24/2020			
9/25/2020			
9/28/2020			
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021			0.076
9/9/2021			0.099
9/13/2021			
9/14/2021			
9/15/2021	0.02	0.082	
9/16/2021			
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	0.02	0.035	
1/27/2022			
1/28/2022			0.068
9/8/2022			0.077
9/12/2022			
9/13/2022	0.02	0.092	
9/14/2022			
9/16/2022			
1/31/2023		0.041	
2/1/2023	0.021		0.089
2/2/2023			
2/3/2023			

# Time Series

Constituent: Barium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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B-97

B-98

DGWA-53 (bg)

2/6/2023

2/7/2023

# Time Series

Constituent: Barium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17
8/31/2016			0.0321	0.0545			0.0576		
9/1/2016					0.0254				
9/2/2016									
9/6/2016						0.0297		0.0497	
9/7/2016									0.0694
12/6/2016			0.029	0.0564			0.0608		
12/7/2016					0.0241	0.0266		0.0469	
12/8/2016									0.062
3/28/2017	0.0166	0.0378							
3/29/2017			0.0335	0.0565	0.0268		0.0693		
3/30/2017						0.0308		0.0495	0.0615
5/11/2017									
5/12/2017		0.04							
5/15/2017	0.0181								
6/15/2017	0.0277								
6/16/2017		0.0369							
7/11/2017	0.0306	0.0362							
7/12/2017			0.0314	0.0572	0.0262	0.0291	0.0585	0.0517	0.0532
8/8/2017	0.0277								
10/24/2017	0.0333	0.0313	0.0317	0.0596					
10/25/2017					0.0268		0.0563	0.0474	0.0544
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	0.0527
7/11/2018					0.026		0.061	0.05	0.053
11/6/2018	0.037	0.026	0.025	0.074					
11/7/2018					0.028	0.034	0.055	0.042	0.044
8/27/2019	0.037	0.027	0.021	0.071	0.024		0.059		0.05
8/28/2019						0.033		0.047	
8/29/2019									
9/17/2019					0.02				
10/15/2019	0.034	0.024	0.024	0.064	0.02				
10/16/2019						0.034	0.059		
10/17/2019								0.046	
10/18/2019									0.045
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									0.044
8/11/2020	0.041	0.026	0.024	0.064	0.028		0.061		
8/12/2020						0.032			
8/13/2020								0.06	
8/14/2020									0.046
9/22/2020	0.038	0.024		0.058	0.036		0.06		
9/23/2020						0.03		0.043	
9/24/2020			0.021						0.033
3/1/2021	0.042	0.028							
3/2/2021				0.052		0.03	0.064	0.043	
3/3/2021					0.035				0.036
3/4/2021			0.025						
9/8/2021		0.025							
9/9/2021	0.038			0.054	0.04	0.027	0.059	0.041	
9/10/2021			0.019						





# Time Series

Constituent: Barium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-2	DGWC-20
8/31/2016			
9/1/2016	0.0214		
9/2/2016			0.0097 (J)
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016	0.0191		0.0087 (J)
12/8/2016			
3/28/2017			
3/29/2017	0.0209		0.0094 (J)
3/30/2017		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	0.0212		0.0099 (J)
8/8/2017			
10/24/2017		0.0206	
10/25/2017	0.021		0.0096 (J)
11/15/2017			
2/27/2018		0.0207	
2/28/2018	0.0213		<0.01
7/11/2018	0.023	0.022	0.01
11/6/2018		0.021	
11/7/2018	0.024		0.011
8/27/2019		0.023	
8/28/2019	0.026		
8/29/2019			0.018
9/17/2019			
10/15/2019			
10/16/2019	0.024		
10/17/2019		0.022	0.015
10/18/2019			
3/2/2020			
3/3/2020	0.028	0.022	
3/4/2020			0.017
8/11/2020	0.027	0.022	
8/12/2020			
8/13/2020			0.019
8/14/2020			
9/22/2020	0.026		0.011
9/23/2020		0.023	
9/24/2020			
3/1/2021			
3/2/2021	0.026	0.023	0.021
3/3/2021			
3/4/2021			
9/8/2021			
9/9/2021	0.025	0.022	
9/10/2021			0.0098

# Time Series

Constituent: Barium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-19	DGWC-2	DGWC-20
9/13/2021			
1/18/2022			
1/20/2022		0.022	
1/21/2022			0.018
1/24/2022			
1/25/2022	0.026		
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022	0.027		
9/15/2022			0.017
9/20/2022		0.02	
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	0.025	0.02	
2/7/2023			0.019

# Time Series

Constituent: Barium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8
8/30/2016									0.0435
8/31/2016								0.0266 (O)	
9/1/2016						0.0162	0.0157		
9/2/2016	0.0252	0.0397							
9/7/2016					0.0194				
12/6/2016								0.0186	0.0431
12/8/2016	0.0262	0.0408			0.0189	0.0247	0.0155		
3/28/2017				0.0363				0.0187	
3/29/2017		0.0417							0.044
3/30/2017	0.0272		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)	0.0389
7/12/2017	0.0276		0.0186						
7/13/2017		0.0376			0.021	0.0165	0.014		
10/24/2017				0.0351					0.0369
10/25/2017	0.0262	0.0384			0.0196			0.0175	
10/26/2017			0.0176			0.0152	0.0117		
2/27/2018				0.0364				0.0172	0.0346
2/28/2018	0.027	0.0353			0.0171				
3/1/2018			0.0164			0.0164			
3/2/2018							0.0131		
7/11/2018	0.027				0.02				
7/12/2018		0.036	0.022			0.015	0.013		
11/6/2018				0.035				0.016	0.027
11/7/2018	0.024	0.031			0.017	0.02	0.014		
11/8/2018			0.022						
8/27/2019				0.036				0.017	
8/28/2019					0.018				0.025
8/29/2019	0.027	0.031	0.025			0.018	0.014		
10/15/2019				0.033					
10/16/2019								0.02	0.027
10/17/2019	0.027				0.018	0.019			
10/18/2019		0.032	0.019				0.014		
3/2/2020				0.036				0.018	
3/3/2020	0.027	0.035							0.026
3/4/2020			0.032		0.015	0.017	0.014		
8/11/2020									
8/12/2020				0.036		0.016		0.017	0.034
8/13/2020			0.027		0.027		0.013		
8/14/2020	0.027	0.035							
9/22/2020				0.03	0.016			0.017	
9/23/2020						0.014	0.013		0.025
9/24/2020	0.024	0.031	0.02						
3/1/2021				0.039					
3/2/2021								0.017	0.029
3/3/2021	0.024	0.031	0.019		0.015	0.02	0.014		
9/9/2021	0.023		0.021						
9/10/2021		0.027		0.032		0.021	0.013	0.015	
9/13/2021					0.014				0.019
1/20/2022	0.024	0.029	0.024		0.014				

# Time Series

Constituent: Barium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8
1/21/2022						0.017			
1/24/2022				0.035			0.014	0.018	
1/25/2022									0.019
1/26/2022									
9/13/2022					0.016	0.022	0.014		
9/14/2022								0.018	
9/15/2022	0.024								0.021
9/16/2022		0.029							
9/19/2022				0.032					
9/20/2022			0.019						
2/1/2023					0.015				
2/3/2023				0.034		0.019	0.013		
2/6/2023		0.027	0.023						
2/7/2023	0.024							0.019	0.025

# Time Series

Constituent: Barium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-9
8/30/2016	0.0162
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	0.0138
12/8/2016	
3/28/2017	0.017
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	0.0154 (J)
7/12/2017	
7/13/2017	
10/24/2017	0.0148
10/25/2017	
10/26/2017	
2/27/2018	0.0148
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	0.017
7/12/2018	
11/6/2018	0.015
11/7/2018	
11/8/2018	
8/27/2019	0.016
8/28/2019	
8/29/2019	
10/15/2019	
10/16/2019	
10/17/2019	0.015
10/18/2019	
3/2/2020	
3/3/2020	0.016
3/4/2020	
8/11/2020	0.016
8/12/2020	
8/13/2020	
8/14/2020	
9/22/2020	0.015
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	0.017
3/3/2021	
9/9/2021	
9/10/2021	0.014
9/13/2021	
1/20/2022	

# Time Series

Constituent: Barium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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DGWC-9

1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	0.016
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	0.017
9/20/2022	
2/1/2023	
2/3/2023	0.019
2/6/2023	
2/7/2023	

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D
8/17/2020	0.0004 (J)								
9/25/2020	0.00035 (J)								
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	0.00046 (J)							7.9E-05 (J)	
4/15/2021									
9/10/2021			0.0011					<0.0005	
9/13/2021	0.00053	6.7E-05 (J)			0.00013 (J)	<0.0005			
9/14/2021				0.0011			<0.0005		<0.0005
1/20/2022								7.1E-05 (J)	
1/21/2022	0.00053								
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						
6/6/2022									
9/8/2022	0.00058								
9/13/2022				0.0014					
9/14/2022						<0.0005			<0.0005
9/15/2022			0.001				<0.0005		
9/16/2022		6.7E-05 (J)			0.00011 (J)				
9/19/2022									
9/20/2022								8E-05 (J)	
2/2/2023	<0.0005		0.00091						
2/3/2023		6.3E-05 (J)		0.0016					
2/6/2023						<0.0005		7.3E-05 (J)	
2/7/2023					8.4E-05 (J)		<0.0005		<0.0005



# Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-122D	B-56
8/17/2020			0.0013 (J)
9/25/2020			
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			
4/15/2021	0.00085		
9/10/2021			
9/13/2021			0.0012
9/14/2021	0.00087		
1/20/2022	0.0011		
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022			0.0012
6/6/2022		0.00024 (J)	
9/8/2022			
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022			0.0013
9/19/2022	0.0011		
9/20/2022			
2/2/2023			
2/3/2023	0.001		
2/6/2023		0.00034 (J)	
2/7/2023			0.0012

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93
10/6/2016	9E-05 (J)								
10/7/2016		0.0004 (J)							
11/22/2016			<0.0005						
3/28/2017									
5/11/2017									
6/15/2017									
7/12/2017									
10/24/2017									
2/19/2018		0.00049 (J)	<0.0005						
3/8/2018									
7/12/2018									
11/7/2018									
1/28/2019		<0.003							
1/30/2019	<0.0025		<0.0005						
8/28/2019									
9/11/2019	0.00012 (J)	0.00035 (J)							
9/12/2019			<0.0005						
9/18/2019				0.00011 (J)					
9/23/2019					0.0015 (J)				
10/16/2019									
10/21/2019	7.8E-05 (J)		<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									
2/27/2020									
3/9/2020									
8/13/2020	0.00011 (J)			0.00014 (J)					
8/14/2020						0.0007 (J)			
8/17/2020					0.0014 (J)		0.0014 (J)		
8/19/2020									0.015
9/22/2020									
9/24/2020	0.00013 (J)			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
3/12/2021	<0.0025								
3/15/2021									
9/9/2021	0.00014 (J)								
9/13/2021							0.001		
9/14/2021		0.00042 (J)	<0.0005	<0.0005	0.0017				
9/15/2021								0.014	0.015
9/16/2021						0.00028 (J)			
1/20/2022	0.00015 (J)	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
1/27/2022							0.0019		
1/28/2022									

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93
9/8/2022	0.00013 (J)								
9/12/2022								0.017	0.017
9/13/2022				0.00013 (J)		0.00044 (J)			
9/14/2022		0.00053							
9/16/2022			<0.0005		0.002		0.0013		
1/31/2023								0.017	0.016
2/1/2023									
2/2/2023	0.00012 (J)	0.00028 (J)							
2/3/2023						0.00038 (J)			
2/6/2023				<0.0005					
2/7/2023			<0.0005		0.0018		0.0016		

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-97	B-98	DGWA-53 (bg)
10/6/2016			
10/7/2016			
11/22/2016			
3/28/2017			<0.0005
5/11/2017			<0.0005
6/15/2017			<0.0005
7/12/2017			<0.0005
10/24/2017			<0.0005
2/19/2018			
3/8/2018			<0.0005
7/12/2018			<0.0005
11/7/2018			<0.0005
1/28/2019			
1/30/2019			
8/28/2019			<0.0005
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/16/2019			<0.0005
10/21/2019			
10/22/2019			
10/24/2019			
12/18/2019			
12/19/2019			
2/17/2020	<0.003	<0.0005	
2/27/2020	0.0019 (J)	<0.0005	
3/9/2020			<0.0005
8/13/2020			<0.0005
8/14/2020			
8/17/2020			
8/19/2020			
9/22/2020			<0.0005
9/24/2020			
9/25/2020			
9/28/2020			
3/4/2021			
3/5/2021			
3/9/2021	0.0019		
3/12/2021			<0.0005
3/15/2021		<0.0005	
9/9/2021			<0.0005
9/13/2021			
9/14/2021			
9/15/2021	0.0016	0.00087	
9/16/2021			
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	0.0017	6.8E-05 (J)	
1/27/2022			
1/28/2022			<0.0005

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-97	B-98	DGWA-53 (bg)
9/8/2022			<0.0005
9/12/2022			
9/13/2022	0.0017	6.2E-05 (J)	
9/14/2022			
9/16/2022			
1/31/2023		<0.0005	
2/1/2023	0.0017		0.00016 (J)
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17
8/31/2016			0.0046	<0.003			<0.0005		
9/1/2016					0.0002 (J)				
9/2/2016									
9/6/2016						<0.003		<0.0005	
9/7/2016									0.0006 (J)
12/6/2016			0.0048	<0.003			<0.0005		
12/7/2016					0.0002 (J)	<0.003		<0.0005	
12/8/2016									0.0005 (J)
3/28/2017	<0.003	9E-05 (J)							
3/29/2017			0.0048	<0.003	0.0002 (J)		<0.0005		
3/30/2017						7E-05 (J)		<0.0005	0.0006 (J)
5/11/2017									
5/12/2017		<0.003							
5/15/2017	<0.003								
6/15/2017	<0.003								
6/16/2017		0.0001 (J)							
7/11/2017	<0.003	<0.003							
7/12/2017			0.0046	<0.003	0.0002 (J)	<0.003	<0.0005	<0.0005	0.0005 (J)
8/8/2017	<0.003								
10/24/2017	<0.003	<0.003	0.0048	<0.003					
10/25/2017					0.0002 (J)		<0.0005	<0.0005	0.0005 (J)
11/15/2017						<0.003			
2/27/2018	<0.003	<0.003	0.0106	<0.003	<0.0005		<0.0005		
2/28/2018						<0.003		<0.0005	<0.003
7/10/2018		0.0009 (J)							
7/11/2018					0.0002 (J)		<0.0005	<0.0005	0.00058 (J)
11/6/2018	0.00012 (J)	0.00013 (J)	0.012	<0.003 (J)					
11/7/2018					<0.003 (J)	<0.003 (J)	<0.0005	<0.003 (J)	<0.003
8/27/2019	7.9E-05 (J)	<0.003	0.0092	0.00014 (J)	0.00028 (J)		<0.0005		0.00066 (J)
8/28/2019						<0.003		<0.0005	
8/29/2019									
9/17/2019					0.00049 (J)				
10/15/2019	<0.003	8.8E-05 (J)	0.01	0.00012 (J)	0.00016 (J)				
10/16/2019						<0.003	<0.0005		
10/17/2019								<0.0005	
10/18/2019									0.00071 (J)
3/2/2020	9.6E-05 (J)	0.0001 (J)		0.00016 (J)	7.4E-05 (J)				
3/3/2020			0.0085			<0.003	<0.0005	<0.0005	
3/4/2020									0.00062 (J)
8/11/2020	0.00013 (J)	0.00011 (J)	0.0066	0.00011 (J)	0.00024 (J)		<0.0005		
8/12/2020						7.8E-05 (J)			
8/13/2020								0.00022 (J)	
8/14/2020									0.00064 (J)
9/22/2020	6.8E-05 (J)	6.9E-05 (J)		0.00015 (J)	0.00017 (J)		<0.0005		
9/23/2020						6.8E-05 (J)		5.8E-05 (J)	
9/24/2020			0.0077						0.0006 (J)
3/1/2021	0.00012 (J)	0.00011 (J)							
3/2/2021				0.00014 (J)		7.3E-05 (J)	<0.0005	<0.0005	
3/3/2021					0.00011 (J)				0.00056
3/4/2021			0.0086						
9/8/2021		9.1E-05 (J)							
9/9/2021	8.9E-05 (J)			0.00013 (J)	8.4E-05 (J)	7E-05 (J)	<0.0005	<0.0005	

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17
9/10/2021			0.0074						
9/13/2021									0.00052
1/18/2022	9.2E-05 (J)	0.00012 (J)							
1/20/2022									
1/21/2022									
1/24/2022								<0.0005	0.00059
1/25/2022				0.00019 (J)	<0.0005	9.1E-05 (J)	<0.0005		
1/26/2022			0.0091						
9/7/2022	8.4E-05 (J)	7.5E-05 (J)							
9/13/2022							<0.0005	<0.0005	
9/14/2022									0.00058
9/15/2022			0.0063	0.00018 (J)	0.00019 (J)	8E-05 (J)			
9/20/2022									
1/31/2023	9.4E-05 (J)	0.00011 (J)							
2/1/2023						6.7E-05 (J)	<0.0005		
2/2/2023			0.0066					<0.0005	
2/6/2023				0.00019 (J)	8.2E-05 (J)				0.00051
2/7/2023									

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-2	DGWC-20
8/31/2016			
9/1/2016	0.0019 (J)		
9/2/2016			0.0026 (J)
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016	0.0021 (J)		0.0035
12/8/2016			
3/28/2017			
3/29/2017	0.0017 (J)		0.0026 (J)
3/30/2017		<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	0.0018 (J)		0.0025 (J)
8/8/2017			
10/24/2017		<0.0005	
10/25/2017	0.0019 (J)		0.0027 (J)
11/15/2017			
2/27/2018		<0.0005	
2/28/2018	<0.003		<0.003
7/10/2018			
7/11/2018	0.002 (J)	<0.0005	0.0026 (J)
11/6/2018		<0.0005	
11/7/2018	<0.003 (J)		<0.003 (J)
8/27/2019		<0.0005	
8/28/2019	0.0018 (J)		
8/29/2019			0.005
9/17/2019			
10/15/2019			
10/16/2019	0.0017 (J)		
10/17/2019		<0.0005	0.0041
10/18/2019			
3/2/2020			
3/3/2020	0.0021 (J)	<0.0005	
3/4/2020			0.0089
8/11/2020	0.002 (J)	<0.0005	
8/12/2020			
8/13/2020			0.0063
8/14/2020			
9/22/2020	0.002 (J)		0.0027 (J)
9/23/2020		<0.0005	
9/24/2020			
3/1/2021			
3/2/2021	0.0019	<0.0005	0.0057
3/3/2021			
3/4/2021			
9/8/2021			
9/9/2021	0.0022	<0.0005	



# Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-2	DGWC-20
9/10/2021			0.0024
9/13/2021			
1/18/2022			
1/20/2022		<0.0005	
1/21/2022			0.007
1/24/2022			
1/25/2022	0.0019		
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022	0.0018		
9/15/2022			0.0056
9/20/2022		<0.0005	
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	0.0017	<0.0005	
2/7/2023			0.0073

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8
8/30/2016									0.0018 (J)
8/31/2016								0.0054	
9/1/2016						0.0165	0.008		
9/2/2016	0.0001 (J)	0.0002 (J)							
9/7/2016					0.0021 (J)				
12/6/2016								0.0064	0.0034
12/8/2016	0.0001 (J)	0.0001 (J)			0.0023 (J)	0.0116	0.0086		
3/28/2017				0.0002 (J)				0.0049	
3/29/2017		0.0002 (J)							0.0031
3/30/2017	0.0002 (J)		0.0004 (J)				0.0106		
3/31/2017					0.0025 (J)	0.0112			
5/12/2017			0.0004 (J)	0.0002 (J)					
6/15/2017			0.0004 (J)	0.0001 (J)					
7/11/2017				0.0001 (J)				0.005	0.0022 (J)
7/12/2017	0.0001 (J)		0.0004 (J)						
7/13/2017		0.0002 (J)			0.0025 (J)	0.0098	0.0106		
10/24/2017				0.0002 (J)					0.0042
10/25/2017	0.0002 (J)	0.0002 (J)			0.0026 (J)			0.0069	
10/26/2017			0.0004 (J)			0.0119	0.0078		
2/27/2018				<0.003				0.0086	0.0047
2/28/2018	<0.003	<0.003			<0.003				
3/1/2018			<0.003			0.0146			
3/2/2018							0.0096		
7/11/2018	0.00016 (J)				0.0029 (J)				
7/12/2018		0.00018 (J)	0.00035 (J)			0.013	0.0086		
11/6/2018				<0.003 (J)				0.01	<0.003 (J)
11/7/2018	<0.003 (J)	<0.003 (J)			0.0031	0.014	0.0078		
11/8/2018			<0.003 (J)						
8/27/2019				0.00024 (J)				0.01	
8/28/2019					0.0023 (J)				0.0021 (J)
8/29/2019	0.00018 (J)	0.00015 (J)	0.00041 (J)			0.011	0.0081		
10/15/2019				0.00022 (J)					
10/16/2019								0.0072	0.0019 (J)
10/17/2019	0.00015 (J)				0.0027 (J)	0.0093			
10/18/2019		0.00014 (J)	0.00038 (J)				0.0099		
3/2/2020				0.00025 (J)				0.0098	
3/3/2020	0.00019 (J)	0.00017 (J)							0.0018 (J)
3/4/2020			0.00077 (J)		0.0029 (J)	0.01	0.008		
8/11/2020									
8/12/2020				0.00024 (J)		0.0068		0.0081	0.0018 (J)
8/13/2020			0.00041 (J)		0.0026 (J)		0.0071		
8/14/2020	0.0002 (J)	0.00016 (J)							
9/22/2020				0.00019 (J)	0.0013 (J)			0.0081	
9/23/2020						0.0069	0.0072		0.0015 (J)
9/24/2020	0.00018 (J)	0.00017 (J)	0.00045 (J)						
3/1/2021				0.00027 (J)					
3/2/2021								0.0063	0.0012
3/3/2021	0.00017 (J)	0.00013 (J)	0.0005		0.0023	0.0081	0.0068		
9/9/2021	0.00018 (J)		0.0005 (J)						
9/10/2021		0.00014 (J)		0.00028 (J)		0.009	0.007	0.0075	
9/13/2021					0.0024				0.0015
1/20/2022	0.00019 (J)	0.00014 (J)	0.00046 (J)		0.002				

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8
1/21/2022						0.01			
1/24/2022				0.00033 (J)			0.0069	0.0084	
1/25/2022									0.0012
1/26/2022									
9/13/2022					0.0028	0.0094	0.0071		
9/14/2022								0.01	
9/15/2022	0.00018 (J)								0.00088
9/16/2022		0.00023 (J)							
9/19/2022				0.00034 (J)					
9/20/2022			0.00037 (J)						
2/1/2023					0.0022				
2/3/2023				0.00033 (J)		0.0087	0.0062		
2/6/2023		0.0001 (J)	0.00038 (J)						
2/7/2023	0.00016 (J)							0.0083	0.0007

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-9
8/30/2016	0.0045
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	0.005
12/8/2016	
3/28/2017	0.0052
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	0.0048
7/12/2017	
7/13/2017	
10/24/2017	0.0051
10/25/2017	
10/26/2017	
2/27/2018	0.0057
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	0.0058
7/12/2018	
11/6/2018	0.006
11/7/2018	
11/8/2018	
8/27/2019	0.007
8/28/2019	
8/29/2019	
10/15/2019	
10/16/2019	
10/17/2019	0.0063
10/18/2019	
3/2/2020	
3/3/2020	0.0048
3/4/2020	
8/11/2020	0.0062
8/12/2020	
8/13/2020	
8/14/2020	
9/22/2020	0.0049
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	0.005
3/3/2021	
9/9/2021	
9/10/2021	0.0049
9/13/2021	
1/20/2022	

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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DGWC-9

1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	0.0054
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	0.0047
9/20/2022	
2/1/2023	
2/3/2023	0.0046
2/6/2023	
2/7/2023	

# Time Series

Constituent: Boron (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D
9/25/2020	0.27								
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	0.24							0.55	
4/15/2021									
9/10/2021			2.5					0.41	
9/13/2021	0.24	1.6			1.3	10.7			
9/14/2021				0.23			6.8		0.32
1/20/2022								0.6	
1/21/2022	0.24								
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						
6/6/2022									
9/8/2022	0.24								
9/13/2022				0.26					
9/14/2022						11.2			0.24
9/15/2022			2.3				7.1		
9/16/2022		1.4			1				
9/19/2022									
9/20/2022								0.61	
2/2/2023	1.6		2.2						
2/3/2023		1.1		0.26					
2/6/2023						10		0.67	
2/7/2023					0.95		6.4		0.16

# Time Series

Constituent: Boron (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-122D	B-56
9/25/2020			
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			
4/15/2021	1.9		
9/10/2021			
9/13/2021			1.5
9/14/2021	1.7		
1/20/2022	1.9		
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022			1.6
6/6/2022		0.2	
9/8/2022			
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022			1.6
9/19/2022	1.7		
9/20/2022			
2/2/2023			
2/3/2023	1.5		
2/6/2023		0.26	
2/7/2023			1.5

# Time Series

Constituent: Boron (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93
10/6/2016	0.053 (J)								
11/22/2016			1.1						
3/28/2017									
5/11/2017									
6/15/2017									
7/12/2017									
10/24/2017									
3/8/2018									
7/12/2018									
11/7/2018									
1/28/2019		0.44							
1/30/2019	0.14		2						
3/13/2019									
9/11/2019	0.068	0.26							
9/12/2019			2						
9/18/2019				0.3					
9/23/2019					1.4				
10/16/2019									
10/21/2019	0.058		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
3/9/2020									
9/22/2020									
9/24/2020	0.074 (J)			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
3/12/2021	0.092 (J)								
9/9/2021	0.068								
9/13/2021							2		
9/14/2021		0.35	2.1	0.29	0.78				
9/15/2021								2.3	3.1
9/16/2021						0.3			
1/20/2022	0.077	0.21		0.28					
1/21/2022						0.32			
1/25/2022			2.3		0.7				
1/26/2022								2.7	3.6
1/27/2022							2.7		
1/28/2022									
9/8/2022	0.064								
9/12/2022								2.9	3.6
9/13/2022				0.33		0.33			
9/14/2022		0.38							
9/16/2022			2.2		0.61		2.1		
1/31/2023								2.6	3.3
2/1/2023									
2/2/2023	0.064	0.47							



# Time Series

Constituent: Boron (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93
2/3/2023						0.31			
2/6/2023				0.31					
2/7/2023			2.1		0.53		2.3		

# Time Series

Constituent: Boron (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-97	B-98	DGWA-53 (bg)
10/6/2016			
11/22/2016			
3/28/2017			0.0612
5/11/2017			0.0805
6/15/2017			0.0725
7/12/2017			0.0735
10/24/2017			0.077
3/8/2018			0.13 (J)
7/12/2018			0.076
11/7/2018			0.073
1/28/2019			
1/30/2019			
3/13/2019			0.08
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/16/2019			0.059
10/21/2019			
10/22/2019			
10/24/2019			
11/22/2019			
12/18/2019			
12/19/2019			
3/9/2020			0.08 (J)
9/22/2020			0.056 (J)
9/24/2020			
9/25/2020			
9/28/2020			
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021			0.064
9/9/2021			0.065
9/13/2021			
9/14/2021			
9/15/2021	3.3	2.6	
9/16/2021			
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	3.7	0.12	
1/27/2022			
1/28/2022			0.062
9/8/2022			0.054
9/12/2022			
9/13/2022	3.7	0.62	
9/14/2022			
9/16/2022			
1/31/2023		0.083	
2/1/2023	3.7		0.051
2/2/2023			

# Time Series

Constituent: Boron (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-97	B-98	DGWA-53 (bg)
2/3/2023			
2/6/2023			
2/7/2023			

# Time Series

Constituent: Boron (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17
8/31/2016			3.5	0.914			0.0419 (J)		
9/1/2016					7.64				
9/2/2016									
9/6/2016						1		1.25	
9/7/2016									0.683
12/6/2016			3.3	1.15			0.0804		
12/7/2016					8.07	0.9		1.56	
12/8/2016									0.688
3/28/2017	0.0067 (J)	0.0097 (J)							
3/29/2017			4.3	1.07	8.46		0.103		
3/30/2017						0.898		1.5	0.743
5/11/2017									
5/12/2017		0.0082 (J)							
5/15/2017	0.0073 (J)								
6/15/2017	<0.04								
6/16/2017		0.0085 (J)							
7/11/2017	<0.04	0.0077 (J)							
7/12/2017			3.38	1.14	7.55	0.996	0.044	1.49	0.62
8/8/2017	<0.04								
10/24/2017	0.0082 (J)	0.0083 (J)	3.45	1.18					
10/25/2017					9.97		0.0565	1.47	0.739
11/15/2017						0.795			
2/27/2018	0.0062 (J)	0.0069 (J)	3.23	1.17	8.03		0.0539		
2/28/2018						0.106		1.58	0.627
7/11/2018					10.2		0.057	1.4	0.79
11/6/2018	<0.04 (J)	<0.04 (J)	2.1	1.2					
11/7/2018					7.7	0.76	0.055	0.8	1.6
3/12/2019	0.0073 (J)	0.0068 (J)	0.98	1.2	4.8				
3/13/2019						0.62	0.047		0.76
3/14/2019								1.6	
9/17/2019					6.9				
10/15/2019	<0.04	0.0054 (J)	1.6	1.2	5.9				
10/16/2019						0.65	0.052		
10/17/2019								1.5	
10/18/2019									0.82
3/2/2020	0.0055 (J)	0.01 (J)		1.6	3.3				
3/3/2020			1.5			0.61	0.15	1.7	
3/4/2020									0.85
9/22/2020	<0.04	<0.04		1.3	4.2		0.086 (J)		
9/23/2020						0.57		1.6	
9/24/2020			0.45						0.88
3/1/2021	<0.04	0.0054 (J)							
3/2/2021				1.3		0.58	0.089	1.4	
3/3/2021					3.6				0.71
3/4/2021			0.65						
9/8/2021		<0.04							
9/9/2021	<0.04			1.5	2	0.62	0.08	1.6	
9/10/2021			0.24						
9/13/2021									0.78
1/18/2022	0.024 (J)	0.015 (J)							
1/20/2022									
1/21/2022									

# Time Series

Constituent: Boron (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17
1/24/2022								1.4	0.9
1/25/2022				1.7	0.7	0.69	0.097		
1/26/2022			0.4						
9/7/2022	<0.04	<0.04							
9/13/2022							0.091	1.5	
9/14/2022									0.87
9/15/2022			0.42	1.7	3.3	0.69			
9/20/2022									
1/31/2023	0.011 (J)	0.0097 (J)							
2/1/2023						0.54	0.16		
2/2/2023			0.34					1.3	
2/6/2023				1.6	0.51				0.83
2/7/2023									

# Time Series

Constituent: Boron (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-2	DGWC-20
8/31/2016			
9/1/2016	3.08		
9/2/2016			6.77
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016	3.34		6.04
12/8/2016			
3/28/2017			
3/29/2017	3.96		8.23
3/30/2017		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	2.82		6.81
8/8/2017			
10/24/2017		1.18	
10/25/2017	3.19		8.94
11/15/2017			
2/27/2018		1.12	
2/28/2018	2.91		6.26
7/11/2018	3.7	0.82	5.7
11/6/2018		0.9	
11/7/2018	2.6		5
3/12/2019		0.72	
3/13/2019	2.6		5.6
3/14/2019			
9/17/2019			
10/15/2019			
10/16/2019	2.2		
10/17/2019		0.73	5
10/18/2019			
3/2/2020			
3/3/2020	3.1	0.68	
3/4/2020			3.6
9/22/2020	2.6		4.9
9/23/2020		0.57	
9/24/2020			
3/1/2021			
3/2/2021	2.3	0.52	3.4
3/3/2021			
3/4/2021			
9/8/2021			
9/9/2021	2.7	0.51	
9/10/2021			4.8
9/13/2021			
1/18/2022			
1/20/2022		0.5	
1/21/2022			3.6

# Time Series

Constituent: Boron (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-19	DGWC-2	DGWC-20
1/24/2022			
1/25/2022	2.5		
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022	2.4		
9/15/2022			4.2
9/20/2022		0.42	
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	2.2	0.38	
2/7/2023			3







# Time Series

Constituent: Boron (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-9
8/30/2016	1.72
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	1.92
12/8/2016	
3/28/2017	2.01
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	1.78
7/12/2017	
7/13/2017	
10/24/2017	1.72
10/25/2017	
10/26/2017	
2/27/2018	1.68
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	1.4
7/12/2018	
11/6/2018	1.4
11/7/2018	
11/8/2018	
3/12/2019	1.2
3/13/2019	
3/14/2019	
10/15/2019	
10/16/2019	
10/17/2019	1.2
10/18/2019	
3/2/2020	
3/3/2020	1.1
3/4/2020	
9/22/2020	0.78
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	0.77
3/3/2021	
9/9/2021	
9/10/2021	0.54
9/13/2021	
1/20/2022	
1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	0.69

# Time Series

Constituent: Boron (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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DGWC-9

9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	0.8
9/20/2022	
2/1/2023	
2/3/2023	0.61
2/6/2023	
2/7/2023	

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D
8/17/2020	0.00059 (J)								
9/25/2020	0.00027 (J)								
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	0.00027 (J)							<0.0005	
4/15/2021									
9/10/2021			0.00083					<0.0005	
9/13/2021	0.00029 (J)	<0.0005			0.00024 (J)	<0.0005			
9/14/2021				<0.0005			<0.0005		<0.0005
1/20/2022								<0.0005	
1/21/2022	0.00059								
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						
6/6/2022									
9/8/2022	0.00027 (J)								
9/13/2022				<0.0005					
9/14/2022						<0.0005			<0.0005
9/15/2022			0.00091				<0.0005		
9/16/2022		<0.0005			<0.0005				
9/19/2022									
9/20/2022								<0.0005	
2/2/2023	<0.0005		0.00087						
2/3/2023		<0.0005		<0.0005					
2/6/2023						<0.0005		<0.0005	
2/7/2023					<0.0005		<0.0005		<0.0005

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-122D	B-56
8/17/2020			0.00029 (J)
9/25/2020			
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			
4/15/2021	0.001		
9/10/2021			
9/13/2021			0.00028 (J)
9/14/2021	0.0011		
1/20/2022	0.00098		
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022			0.00025 (J)
6/6/2022		<0.0005	
9/8/2022			
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022			0.0003 (J)
9/19/2022	0.0012		
9/20/2022			
2/2/2023			
2/3/2023	0.0011		
2/6/2023		<0.0005	
2/7/2023			0.00036 (J)

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93
3/28/2017									
5/11/2017									
6/15/2017									
7/12/2017									
10/24/2017									
3/8/2018									
7/12/2018									
11/7/2018									
1/28/2019		<0.0005							
1/30/2019	<0.0005		<0.0005						
8/28/2019									
9/11/2019	<0.0005	<0.0005							
9/12/2019			<0.0005						
9/18/2019				<0.0005					
9/23/2019					0.00044 (J)				
10/16/2019									
10/21/2019	<0.0005		<0.0005		0.00035 (J)	0.00041 (J)			
10/22/2019		0.00014 (J)							
10/24/2019				<0.0005					
3/9/2020									
8/13/2020	<0.0005			<0.0005					
8/14/2020						0.00037 (J)			
8/17/2020					0.00058 (J)		0.0018 (J)		
8/19/2020									0.00077 (J)
9/22/2020									
9/24/2020	<0.0005			<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)
3/12/2021	<0.0005								
9/9/2021	<0.0005								
9/13/2021							0.0013		
9/14/2021		0.00025 (J)	<0.0005	<0.0005	0.0007				
9/15/2021								0.00096	0.00088
9/16/2021						0.0003 (J)			
1/20/2022	<0.0005	<0.0005		<0.0005					
1/21/2022						0.0003 (J)			
1/25/2022			<0.0005		0.00072				
1/26/2022								0.001	0.00079
1/27/2022							0.0036		
1/28/2022									
9/8/2022	<0.0005								
9/12/2022								0.0014	0.00084
9/13/2022				<0.0005		0.00031 (J)			
9/14/2022		0.00018 (J)							
9/16/2022			<0.0005		0.00073		0.0019		
1/31/2023								0.0015	0.00089
2/1/2023									
2/2/2023	<0.0005	<0.0005							
2/3/2023						0.0003 (J)			

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93
2/6/2023				<0.0005					
2/7/2023			<0.0005		0.00081		0.0033		

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-97	B-98	DGWA-53 (bg)
3/28/2017			<0.0005
5/11/2017			8E-05 (J)
6/15/2017			<0.0005
7/12/2017			<0.0005
10/24/2017			<0.0005
3/8/2018			<0.0005
7/12/2018			0.00013 (J)
11/7/2018			<0.0005
1/28/2019			
1/30/2019			
8/28/2019			<0.0005
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/16/2019			<0.0005
10/21/2019			
10/22/2019			
10/24/2019			
3/9/2020			<0.0005
8/13/2020			<0.0005
8/14/2020			
8/17/2020			
8/19/2020			
9/22/2020			<0.0005
9/24/2020			
9/25/2020			
9/28/2020			
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021			<0.0005
9/9/2021			<0.0005
9/13/2021			
9/14/2021			
9/15/2021	0.00056	0.0003 (J)	
9/16/2021			
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	0.00055	<0.0005	
1/27/2022			
1/28/2022			<0.0005
9/8/2022			<0.0005
9/12/2022			
9/13/2022	0.00055	0.00031 (J)	
9/14/2022			
9/16/2022			
1/31/2023		<0.0005	
2/1/2023	0.00063		0.00019 (J)
2/2/2023			
2/3/2023			



# Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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B-97

B-98

DGWA-53 (bg)

2/6/2023

2/7/2023

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17
8/31/2016			0.0012	<0.0005			<0.0005		
9/1/2016					0.0004 (J)				
9/2/2016									
9/6/2016						<0.0005		<0.0005	
9/7/2016									0.0003 (J)
12/6/2016			0.0013	<0.0005			<0.0005		
12/7/2016					0.0003 (J)	0.0002 (J)		9E-05 (J)	
12/8/2016									0.0003 (J)
3/28/2017	<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)	0.0003 (J)
5/11/2017									
5/12/2017		<0.0005							
5/15/2017	<0.0005								
6/15/2017	<0.0005								
6/16/2017		<0.0005							
7/11/2017	<0.0005	<0.0005							
7/12/2017			0.0013	<0.0005	0.0004 (J)	<0.0005	<0.0005	<0.0005	0.0002 (J)
8/8/2017	<0.0005								
10/24/2017	<0.0005	<0.0005	0.0014	<0.0005					
10/25/2017					0.0004 (J)		<0.0005	<0.0005	0.0002 (J)
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	<0.001
7/11/2018					0.00033 (J)		<0.0005	<0.0005	0.00029 (J)
11/6/2018	<0.0005	<0.0005	0.0012	<0.0005					
11/7/2018					<0.001 (J)	<0.0005	<0.0005	<0.001 (J)	<0.001
8/27/2019	<0.0005	<0.0005	0.00077 (J)	0.00012 (J)	0.00037 (J)		<0.0005		0.00033 (J)
8/28/2019						<0.0005		<0.0005	
8/29/2019									
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		
10/17/2019								<0.0005	
10/18/2019									0.00029 (J)
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									0.00028 (J)
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								0.00013 (J)	
8/14/2020									0.00029 (J)
9/22/2020	<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)						0.00024 (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)				0.00023 (J)
3/4/2021			0.00088						
9/8/2021		<0.0005							
9/9/2021	<0.0005			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
9/10/2021			0.00061						

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17
9/13/2021									0.00023 (J)
1/18/2022	<0.0005	<0.0005							
1/20/2022									
1/21/2022									
1/24/2022								<0.0005	0.00027 (J)
1/25/2022				0.00016 (J)	<0.0005	<0.0005	<0.0005		
1/26/2022			0.0007						
9/7/2022	<0.0005	<0.0005							
9/13/2022							<0.0005	<0.0005	
9/14/2022									0.00024 (J)
9/15/2022			0.00047 (J)	<0.0005	0.00017 (J)	<0.0005			
9/20/2022									
1/31/2023	<0.0005	<0.0005							
2/1/2023						<0.0005	<0.0005		
2/2/2023			0.00059					<0.0005	
2/6/2023				0.00015 (J)	<0.0005				0.00028 (J)
2/7/2023									

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-2	DGWC-20
8/31/2016			
9/1/2016	0.0004 (J)		
9/2/2016			0.0023
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016	0.0004 (J)		0.0023
12/8/2016			
3/28/2017			
3/29/2017	0.0004 (J)		0.0021
3/30/2017		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	0.0004 (J)		0.0021
8/8/2017			
10/24/2017		0.0003 (J)	
10/25/2017	0.0004 (J)		0.002
11/15/2017			
2/27/2018		<0.0005	
2/28/2018	<0.001		0.0018
7/11/2018	0.00039 (J)	0.00018 (J)	0.0018
11/6/2018		<0.001 (J)	
11/7/2018	<0.001 (J)		0.0018
8/27/2019		0.00012 (J)	
8/28/2019	0.00033 (J)		
8/29/2019			0.002 (J)
9/17/2019			
10/15/2019			
10/16/2019	0.00034 (J)		
10/17/2019		0.00013 (J)	0.0017 (J)
10/18/2019			
3/2/2020			
3/3/2020	0.00037 (J)	0.00014 (J)	
3/4/2020			0.0026
8/11/2020	0.0003 (J)	<0.0005	
8/12/2020			
8/13/2020			0.0021 (J)
8/14/2020			
9/22/2020	0.00036 (J)		0.0014 (J)
9/23/2020		0.00013 (J)	
9/24/2020			
3/1/2021			
3/2/2021	0.00035 (J)	<0.0005	0.0025
3/3/2021			
3/4/2021			
9/8/2021			
9/9/2021	0.00037 (J)	<0.0005	
9/10/2021			0.0012

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-2	DGWC-20
9/13/2021			
1/18/2022			
1/20/2022		<0.0005	
1/21/2022			0.0028
1/24/2022			
1/25/2022	0.00041 (J)		
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022	0.00032 (J)		
9/15/2022			0.0021
9/20/2022		<0.0005	
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	0.00029 (J)	<0.0005	
2/7/2023			0.0027

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-21	DGWC-22	DGWC-23	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		
9/2/2016	0.0006 (J)	0.0003 (J)							
9/7/2016					0.0007 (J)				
12/6/2016								0.0004 (J)	0.0025
12/8/2016	0.0006 (J)	0.0004 (J)			0.0003 (J)	0.0002 (J)	0.0042		
3/28/2017				0.0006 (J)				0.0002 (J)	
3/29/2017		0.0004 (J)							0.0024
3/30/2017	0.0008 (J)		0.0002 (J)				0.0089		
3/31/2017					0.0009 (J)	0.002			
5/12/2017			0.0003 (J)	0.0006 (J)					
6/15/2017			0.0002 (J)	0.0005 (J)					
7/11/2017				0.0006 (J)				0.0003 (J)	0.0021
7/12/2017	0.0006 (J)		0.0002 (J)						
7/13/2017		0.0005 (J)				0.0008 (J)	0.0017	0.0033	
10/24/2017				0.0007 (J)					0.0029
10/25/2017	0.0005 (J)	0.0007 (J)			0.0005 (J)			0.0006 (J)	
10/26/2017			0.0003 (J)			0.0015	0.0032		
2/27/2018				<0.001				<0.001	0.0029
2/28/2018	<0.0005	<0.001			<0.001				
3/1/2018			<0.001			0.0025			
3/2/2018							0.0049		
7/11/2018	0.00054 (J)				0.0024				
7/12/2018		0.00091 (J)	0.00028 (J)			0.0021	0.0032		
11/6/2018				<0.001 (J)				<0.001 (J)	0.0027
11/7/2018	<0.001 (J)	<0.001 (J)			<0.001 (J)	0.0016	0.0031		
11/8/2018			<0.001 (J)						
8/27/2019				0.00072 (J)				0.00082 (J)	
8/28/2019					0.0015 (J)				0.0022 (J)
8/29/2019	0.00087 (J)	0.00053 (J)	0.00022 (J)			0.0021 (J)	0.003		
10/15/2019				0.00077 (J)					
10/16/2019								0.00069 (J)	0.0022 (J)
10/17/2019	0.0006 (J)				0.00058 (J)	0.0033			
10/18/2019		0.00056 (J)	0.00022 (J)				0.0028		
3/2/2020				0.00088 (J)				0.00089 (J)	
3/3/2020	0.00063 (J)	0.00061 (J)							0.002 (J)
3/4/2020			0.00024 (J)		0.00037 (J)	0.0017 (J)	0.0036		
8/11/2020									
8/12/2020				0.0008 (J)		0.001 (J)		0.00079 (J)	0.0021 (J)
8/13/2020			0.00027 (J)		0.0013 (J)		0.0028		
8/14/2020	0.00054 (J)	0.00057 (J)							
9/22/2020				0.00065 (J)	0.0007 (J)			0.00072 (J)	
9/23/2020						0.0013 (J)	0.0025		0.0018 (J)
9/24/2020	0.00073 (J)	0.00058 (J)	0.00018 (J)						
3/1/2021				0.00085					
3/2/2021								0.00075	0.0017
3/3/2021	0.00044 (J)	0.0005	0.00015 (J)		0.00038 (J)	0.0016	0.0033		
9/9/2021	0.00012 (J)		0.00019 (J)						
9/10/2021		0.00061		0.0009		0.0014	0.0028	0.00093	
9/13/2021					0.00042 (J)				0.002
1/20/2022	<0.0005	0.00052	0.00012 (J)		0.00038 (J)				

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8
1/21/2022						0.0019			
1/24/2022				0.00098			0.0029	0.00094	
1/25/2022									0.0016
1/26/2022									
9/13/2022					0.00069	0.0011	0.0026		
9/14/2022								0.00087	
9/15/2022	0.00029 (J)								0.0011
9/16/2022		0.00065							
9/19/2022				0.00091					
9/20/2022			0.00017 (J)						
2/1/2023					0.00075				
2/3/2023				0.001		0.0013	0.0024		
2/6/2023		0.00045 (J)	0.00021 (J)						
2/7/2023	0.00059							0.0012	0.00087

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-9
8/30/2016	0.0004 (J)
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	0.0005 (J)
12/8/2016	
3/28/2017	0.0005 (J)
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	0.0005 (J)
7/12/2017	
7/13/2017	
10/24/2017	0.0006 (J)
10/25/2017	
10/26/2017	
2/27/2018	<0.001
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	0.00067 (J)
7/12/2018	
11/6/2018	<0.001 (J)
11/7/2018	
11/8/2018	
8/27/2019	0.00071 (J)
8/28/2019	
8/29/2019	
10/15/2019	
10/16/2019	
10/17/2019	0.00064 (J)
10/18/2019	
3/2/2020	
3/3/2020	0.00059 (J)
3/4/2020	
8/11/2020	0.00059 (J)
8/12/2020	
8/13/2020	
8/14/2020	
9/22/2020	0.00059 (J)
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	0.00057
3/3/2021	
9/9/2021	
9/10/2021	0.00053
9/13/2021	
1/20/2022	



# Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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DGWC-9

1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	0.00059
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	0.00076
9/20/2022	
2/1/2023	
2/3/2023	0.00053
2/6/2023	
2/7/2023	

# Time Series

Constituent: Calcium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D
9/25/2020	44.7								
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	47.7							40.2	
4/15/2021									
9/10/2021			84.7					42.1	
9/13/2021	51.5	53.6			42.1	83.6			
9/14/2021				151			83.3		98.4
1/20/2022								40	
1/21/2022	49.9								
1/24/2022				163		89.9	88.2		107
1/25/2022					40				
1/26/2022		49.7							
1/27/2022			86.9						
6/6/2022									
9/8/2022	46								
9/13/2022				153					
9/14/2022						82.6			90.7
9/15/2022			70.3				85.1		
9/16/2022		57			35.3				
9/19/2022									
9/20/2022								40.5	
2/2/2023	46.9		68						
2/3/2023		41.8		142					
2/6/2023						76		37.6	
2/7/2023					30.7		83.1		91.5

# Time Series

Constituent: Calcium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-120D	B-122D	B-56
9/25/2020			
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			
4/15/2021	171		
9/10/2021			
9/13/2021			15.2
9/14/2021	162		
1/20/2022	158		
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022			19.8
6/6/2022		48.3	
9/8/2022			
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022			18.4
9/19/2022	142		
9/20/2022			
2/2/2023			
2/3/2023	121		
2/6/2023		47.3	
2/7/2023			20.1

# Time Series

Constituent: Calcium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93
3/28/2017									
5/11/2017									
6/15/2017									
7/12/2017									
10/24/2017									
3/8/2018									
7/12/2018									
11/7/2018									
1/28/2019		<25							
1/30/2019	51.4		62.4						
3/13/2019									
10/16/2019									
10/21/2019	31.2		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									
3/9/2020									
9/22/2020									
9/24/2020	28.8			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
3/12/2021	28.8								
9/9/2021	29.2								
9/13/2021							80.5		
9/14/2021		22.7	60.9	17	33.4				
9/15/2021								110	129
9/16/2021						39.4			
1/20/2022	36.3	22.9		18.6					
1/21/2022						40.8			
1/25/2022			54.9		36.4				
1/26/2022								96	141
1/27/2022							105		
1/28/2022									
9/8/2022	31.4								
9/12/2022								104	133
9/13/2022				15.7		36.2			
9/14/2022		26.3							
9/16/2022			63.9		34.3		97.6		
1/31/2023								95	123
2/1/2023									
2/2/2023	32.4	21.2							
2/3/2023						31.4			
2/6/2023				14.8					
2/7/2023			45.3		37		92.4		

# Time Series

Constituent: Calcium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-97	B-98	DGWA-53 (bg)
3/28/2017			30.8
5/11/2017			35.8
6/15/2017			36
7/12/2017			40.3
10/24/2017			30.3
3/8/2018			39.8
7/12/2018			34.7
11/7/2018			28.6
1/28/2019			
1/30/2019			
3/13/2019			26.7
10/16/2019			17.7
10/21/2019			
10/22/2019			
10/24/2019			
11/22/2019			
12/18/2019			
12/19/2019			
2/17/2020	190	85.9	
3/9/2020			23.7
9/22/2020			15.5
9/24/2020			
9/25/2020			
9/28/2020			
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021			18.4
9/9/2021			18.3
9/13/2021			
9/14/2021			
9/15/2021	178	105	
9/16/2021			
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	198	31.9	
1/27/2022			
1/28/2022			19.5
9/8/2022			17.2
9/12/2022			
9/13/2022	201	63.3	
9/14/2022			
9/16/2022			
1/31/2023		40.6	
2/1/2023	192		14.1
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			

# Time Series

Constituent: Calcium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17
8/31/2016			81.7	44.2			9.95		
9/1/2016					80.6				
9/2/2016									
9/6/2016						44		33.6	
9/7/2016									8.61
12/6/2016			74.2	48.3			10.4		
12/7/2016					82.1	39.8		34.7	
12/8/2016									7.92
3/28/2017	5.14	8.31							
3/29/2017			79.5	50.5	88.3		14.4		
3/30/2017						46.3		36.9	9.56
5/11/2017									
5/12/2017		8.04							
5/15/2017	6.5								
6/15/2017	5.38								
6/16/2017		7.66							
7/11/2017	5.96	7.71							
7/12/2017			86.3	50.8	87	47.8	10.5	38.4	10.4
8/8/2017	5.2								
10/24/2017	4.93	6.86	81.5	55					
10/25/2017					92.1		9.67	36.2	10.9
11/15/2017						49.3			
2/27/2018	<25	<25	96.2	51.4	85.6		<25		
2/28/2018						<25		35	<25
7/11/2018					93.6		9.9	37.5	13 (J)
11/6/2018	5.5	5.7	94.8	62.6					
11/7/2018					73.3	44.8	9.7	11.4	37
3/12/2019	5.1	5.5	83.5	61.4	62.1				
3/13/2019						42.1	9.7		11.9 (J)
3/14/2019								34.7	
10/15/2019	5.1	5.1	79.1	61.2	61.4				
10/16/2019						43.8	9.4		
10/17/2019								37	
10/18/2019									12.9
3/2/2020	5.3	5.8		65.8	46.5				
3/3/2020			63.6			49.3	14	37.8	
3/4/2020									15.8
9/22/2020	5	5.4		72.7	55.4		11.6		
9/23/2020						39		35.6	
9/24/2020			53.1						12.7
3/1/2021	4.1	5.9							
3/2/2021				65.3		40.5	11.4	36	
3/3/2021					50.1				14.3
3/4/2021			75.8						
9/8/2021		6.1							
9/9/2021	5.3			66.8	29.2	38.2	11.1	34.4	
9/10/2021			82.4						
9/13/2021									15.8
1/18/2022	6.1	6.6							
1/20/2022									
1/21/2022									
1/24/2022								33.2	15.6



# Time Series

Constituent: Calcium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-2	DGWC-20
8/31/2016			
9/1/2016	65.6		
9/2/2016			96.3
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016	68.3		91.9
12/8/2016			
3/28/2017			
3/29/2017	68		95.7
3/30/2017		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	70		100
8/8/2017			
10/24/2017		86	
10/25/2017	77		97.3
11/15/2017			
2/27/2018		66.7	
2/28/2018	72		86.3
7/11/2018	82.7	55	92.4
11/6/2018		54.5	
11/7/2018	81.7		85.9
3/12/2019		52.2	
3/13/2019	76.9		86.4
3/14/2019			
10/15/2019			
10/16/2019	85.7		
10/17/2019		47.2	86.9
10/18/2019			
3/2/2020			
3/3/2020	86.8	48.4	
3/4/2020			103
9/22/2020	103		79.2
9/23/2020		44.4	
9/24/2020			
3/1/2021			
3/2/2021	93.2	44	74.7
3/3/2021			
3/4/2021			
9/8/2021			
9/9/2021	93.6	42	
9/10/2021			69.8
9/13/2021			
1/18/2022			
1/20/2022		44.6	
1/21/2022			104
1/24/2022			



# Time Series

Constituent: Calcium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-19	DGWC-2	DGWC-20
1/25/2022	101		
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022	105		
9/15/2022			70.1
9/20/2022		37.8	
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	105	35.3	
2/7/2023			110





# Time Series

Constituent: Calcium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-9
8/30/2016	64.9
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	59.3
12/8/2016	
3/28/2017	71.6
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	73.7
7/12/2017	
7/13/2017	
10/24/2017	92.5
10/25/2017	
10/26/2017	
2/27/2018	73.1
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	88.5
7/12/2018	
11/6/2018	81.1
11/7/2018	
11/8/2018	
3/12/2019	78.1
3/13/2019	
3/14/2019	
10/15/2019	
10/16/2019	
10/17/2019	75.6
10/18/2019	
3/2/2020	
3/3/2020	59.5
3/4/2020	
9/22/2020	54.7
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	48.8
3/3/2021	
9/9/2021	
9/10/2021	47.7
9/13/2021	
1/20/2022	
1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	48.4

# Time Series

Constituent: Calcium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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DGWC-9

9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	45.1
9/20/2022	
2/1/2023	
2/3/2023	43.8
2/6/2023	
2/7/2023	

# Time Series

Constituent: Chloride (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D
9/25/2020	13.2								
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	12.9							3.9	
4/15/2021									
9/10/2021			10.2					4.8	
9/13/2021	11.1	8.7			7	11.7			
9/14/2021				7.9			28.8		27.3
1/20/2022								3.7	
1/21/2022	11.3								
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						
6/6/2022									
9/8/2022	10.2								
9/13/2022				8					
9/14/2022						12.9			10.3
9/15/2022			9.9				27.6		
9/16/2022		8.7			6.6				
9/19/2022									
9/20/2022								3.5	
2/2/2023	11.7		10.8						
2/3/2023		9.1		7.8					
2/6/2023						13.6		3.5	
2/7/2023					6.8		27.6		9.9

# Time Series

Constituent: Chloride (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-120D	B-122D	B-56
9/25/2020			
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			
4/15/2021	6.2		
9/10/2021			
9/13/2021			7.1
9/14/2021	6.1		
1/20/2022	6		
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022			7.6
6/6/2022		18.4	
9/8/2022			
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022			6.9
9/19/2022	5.8		
9/20/2022			
2/2/2023			
2/3/2023	6.1		
2/6/2023		15.4	
2/7/2023			6.9

# Time Series

Constituent: Chloride (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93
3/28/2017									
5/11/2017									
6/15/2017									
7/12/2017									
10/24/2017									
11/15/2017									
3/8/2018									
7/12/2018									
11/7/2018									
1/28/2019		7.9							
1/30/2019	7.1		9.3						
3/13/2019									
10/16/2019									
10/21/2019	6.5		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									
3/9/2020									
9/22/2020									
9/24/2020	5.7			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
3/12/2021	5.9								
9/9/2021	5.8								
9/13/2021							8.2		
9/14/2021		7.1	8.9	4.7	9.5				
9/15/2021								10.4	13.2
9/16/2021						2.6			
1/20/2022	5.6	15		5					
1/21/2022						2.4			
1/25/2022			8.7		9.9				
1/26/2022								9.4	14.7
1/27/2022							8.8		
1/28/2022									
9/8/2022	5.3								
9/12/2022								10.2	15
9/13/2022				2.4		2.5			
9/14/2022		6.5							
9/16/2022			8.4		9.4		8.7		
1/31/2023								11.4	15.7
2/1/2023									
2/2/2023	5.8	7							
2/3/2023						2.5			
2/6/2023				3.5					
2/7/2023			8.7		12.1		8.4		



# Time Series

Constituent: Chloride (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-97	B-98	DGWA-53 (bg)
3/28/2017			3.7
5/11/2017			2.3
6/15/2017			2.6
7/12/2017			2.3
10/24/2017			2.7
11/15/2017			2.2
3/8/2018			2.4
7/12/2018			2.2
11/7/2018			2.3
1/28/2019			
1/30/2019			
3/13/2019			3.6
10/16/2019			2
10/21/2019			
10/22/2019			
10/24/2019			
11/22/2019			
12/18/2019			
12/19/2019			
2/17/2020	20.9	96.8	
3/9/2020			1.8
9/22/2020			1.6
9/24/2020			
9/25/2020			
9/28/2020			
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021			2
9/9/2021			1.8
9/13/2021			
9/14/2021			
9/15/2021	18.8	29.9	
9/16/2021			
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	19.8	4.9	
1/27/2022			
1/28/2022			1.8
9/8/2022			1.6
9/12/2022			
9/13/2022	19.5	4.9	
9/14/2022			
9/16/2022			
1/31/2023		2.8	
2/1/2023	19.4		1.9
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			

# Time Series

Constituent: Chloride (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17
8/31/2016			11	11			3.1		
9/1/2016					13				
9/2/2016									
9/6/2016						16		19	
9/7/2016									17
12/6/2016			10	11			3.1		
12/7/2016					20 (O)	14		20	
12/8/2016									19
3/28/2017	3.8	3.6							
3/29/2017			11	12	13		3.8		
3/30/2017						16		21	20
5/11/2017									
5/12/2017		3.8							
5/15/2017	2.2								
6/15/2017	2								
6/16/2017		3.4							
7/11/2017	2.1	3.1							
7/12/2017			11	11	12	14	2.9	21	18
8/8/2017	2.2								
10/24/2017	2.4	3.2	11	12					
10/25/2017					13		3.5	21	19
11/15/2017		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	17
7/11/2018					11.3		3.2	21.4	19.5
11/6/2018	2.3	2.6	12.3	15.2					
11/7/2018					11.8	16.7	3.1	22.4	21.4
3/12/2019	2.5	3.3	12.1	14.5	12.1				
3/13/2019						12.4	3.4		19.9
3/14/2019								24	
10/15/2019	2.2	3.3	9.4	15.6	11.6				
10/16/2019						17.4	3.5		
10/17/2019								22	
10/18/2019									22
3/2/2020	1.9	3		15	8.9				
3/3/2020			8.4			9.4	4.1	22.7	
3/4/2020									19.6
9/22/2020	1.9	5.2		16	10.8		3.2		
9/23/2020						12.6		22.4	
9/24/2020			5.9						22.7
3/1/2021	1.9	3.9							
3/2/2021				14.4		13.1	3.5	22.8	
3/3/2021					10.3				20.9
3/4/2021			7.2						
9/8/2021		5.9							
9/9/2021	1.9			13.6	8.5	12.9	3.3	21.9	
9/10/2021			8.2						
9/13/2021									18.2
1/18/2022	1.9	5.9							
1/20/2022									
1/21/2022									
1/24/2022								21.5	19.2



# Time Series

Constituent: Chloride (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-2	DGWC-20
8/31/2016			
9/1/2016	41		
9/2/2016			15
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016	41		16
12/8/2016			
3/28/2017			
3/29/2017	42		17
3/30/2017		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	41		18
8/8/2017			
10/24/2017		4.4	
10/25/2017	41		20
11/15/2017			
2/27/2018		4.1	
2/28/2018	36.4		18.6
7/11/2018	38.2	3.3	20.4
11/6/2018		3.7	
11/7/2018	38.8		21.5
3/12/2019		3.1	
3/13/2019	40.1		24.8
3/14/2019			
10/15/2019			
10/16/2019	33.2		
10/17/2019		2.8	24.9
10/18/2019			
3/2/2020			
3/3/2020	30.9	2.3	
3/4/2020			27.8
9/22/2020	27.6		25.8
9/23/2020		2.1	
9/24/2020			
3/1/2021			
3/2/2021	27	2.1	28
3/3/2021			
3/4/2021			
9/8/2021			
9/9/2021	25.4	2.1	
9/10/2021			26.2
9/13/2021			
1/18/2022			
1/20/2022		2	
1/21/2022			27
1/24/2022			

# Time Series

Constituent: Chloride (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-19	DGWC-2	DGWC-20
1/25/2022	23.7		
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022	18.7		
9/15/2022			26.2
9/20/2022		2	
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	17.9	2.1	
2/7/2023			27.9





# Time Series

Constituent: Chloride (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-9
8/30/2016	6
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	6.2
12/8/2016	
3/28/2017	6.6
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	6.9
7/12/2017	
7/13/2017	
10/24/2017	6.7
10/25/2017	
10/26/2017	
11/15/2017	
2/27/2018	8.2
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	10.5
7/12/2018	
11/6/2018	8.7
11/7/2018	
11/8/2018	
3/12/2019	8.5
3/13/2019	
3/14/2019	
10/15/2019	
10/16/2019	
10/17/2019	10
10/18/2019	
3/2/2020	
3/3/2020	6.6
3/4/2020	
9/22/2020	8
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	8.4
3/3/2021	
9/9/2021	
9/10/2021	9
9/13/2021	
1/20/2022	
1/21/2022	
1/24/2022	
1/25/2022	



# Time Series

Constituent: Chloride (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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DGWC-9

1/26/2022	9.1
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	13.2
9/20/2022	
2/1/2023	
2/3/2023	14.7
2/6/2023	
2/7/2023	

# Time Series

Constituent: Chromium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D
8/17/2020	<0.005								
9/25/2020	0.00094 (J)								
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	0.00057 (J)							0.00061 (J)	
4/15/2021									
9/10/2021			<0.005					<0.005	
9/13/2021	<0.005	0.0014 (J)			<0.005	<0.005			
9/14/2021				<0.005			<0.005		<0.005
1/20/2022								<0.005	
1/21/2022	<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						
6/6/2022									
9/8/2022	<0.005								
9/13/2022				<0.005					
9/14/2022						<0.005			<0.005
9/15/2022			<0.005				<0.005		
9/16/2022		<0.005			<0.005				
9/19/2022									
9/20/2022								<0.005	
2/2/2023	<0.005		<0.005						
2/3/2023		<0.005		<0.005					
2/6/2023						<0.005		<0.005	
2/7/2023					0.0013 (J)		<0.005		<0.005

# Time Series

Constituent: Chromium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-122D	B-56
8/17/2020			0.0014 (J)
9/25/2020			
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			
4/15/2021	<0.005		
9/10/2021			
9/13/2021			<0.005
9/14/2021	<0.005		
1/20/2022	<0.005		
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022			0.0014 (J)
6/6/2022		<0.005	
9/8/2022			
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022			<0.005
9/19/2022	<0.005		
9/20/2022			
2/2/2023			
2/3/2023	<0.005		
2/6/2023		<0.005	
2/7/2023			<0.005

# Time Series

Constituent: Chromium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93
3/28/2017									
5/11/2017									
6/15/2017									
7/12/2017									
10/24/2017									
3/8/2018									
7/12/2018									
11/7/2018									
1/28/2019		<0.005							
1/30/2019	<0.005		<0.005						
8/28/2019									
9/11/2019	<0.005	<0.005							
9/12/2019			<0.005						
9/18/2019				0.00068 (J)					
9/23/2019					0.0011 (J)				
10/16/2019									
10/21/2019	0.00098 (J)		<0.005		<0.005	0.0017 (J)			
10/22/2019		0.00064 (J)							
10/24/2019				<0.005					
3/9/2020									
8/13/2020	<0.005			0.0021 (J)					
8/14/2020						0.005 (J)			
8/17/2020					<0.005		0.0014 (J)		
8/19/2020									0.00057 (J)
9/22/2020									
9/24/2020	<0.005			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
3/12/2021	<0.005								
9/9/2021	<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
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		<0.005				
1/26/2022								<0.005	0.0011 (J)
1/27/2022							<0.005		
1/28/2022									
9/8/2022	<0.005								
9/12/2022								<0.005	<0.005
9/13/2022				<0.005		0.0022 (J)			
9/14/2022		<0.005							
9/16/2022			<0.005		<0.005		<0.005		
1/31/2023								<0.005	<0.005
2/1/2023									
2/2/2023	<0.005	<0.005							
2/3/2023						0.0026 (J)			

# Time Series

Constituent: Chromium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93
2/6/2023				<0.005					
2/7/2023			<0.005		0.0013 (J)		<0.005		

# Time Series

Constituent: Chromium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-97	B-98	DGWA-53 (bg)
3/28/2017			<0.005
5/11/2017			<0.005
6/15/2017			<0.005
7/12/2017			<0.005
10/24/2017			<0.005
3/8/2018			<0.005
7/12/2018			<0.005
11/7/2018			<0.005
1/28/2019			
1/30/2019			
8/28/2019			<0.005
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/16/2019			<0.005
10/21/2019			
10/22/2019			
10/24/2019			
3/9/2020			<0.005
8/13/2020			<0.005
8/14/2020			
8/17/2020			
8/19/2020			
9/22/2020			<0.005
9/24/2020			
9/25/2020			
9/28/2020			
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021			<0.005
9/9/2021			<0.005
9/13/2021			
9/14/2021			
9/15/2021	<0.005	<0.005	
9/16/2021			
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	<0.005	0.0013 (J)	
1/27/2022			
1/28/2022			<0.005
9/8/2022			<0.005
9/12/2022			
9/13/2022	<0.005	<0.005	
9/14/2022			
9/16/2022			
1/31/2023		0.0014 (J)	
2/1/2023	<0.005		<0.005
2/2/2023			
2/3/2023			

# Time Series

Constituent: Chromium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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B-97

B-98

DGWA-53 (bg)

2/6/2023

2/7/2023

# Time Series

Constituent: Chromium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17
8/31/2016			<0.005	<0.005			<0.005		
9/1/2016					<0.005				
9/2/2016									
9/6/2016						<0.005		<0.005	
9/7/2016									0.0026 (J)
12/6/2016			<0.005	<0.005			<0.005		
12/7/2016					<0.005	<0.005		<0.005	
12/8/2016									0.0025 (J)
3/28/2017	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)	0.0026 (J)
5/11/2017									
5/12/2017		0.0004 (J)							
5/15/2017	0.0006 (J)								
6/15/2017	0.0006 (J)								
6/16/2017		0.0005 (J)							
7/11/2017	0.0005 (J)	<0.005							
7/12/2017			0.0006 (J)	<0.005	<0.005	<0.005	<0.005	<0.005	0.0022 (J)
8/8/2017	0.0005 (J)								
10/24/2017	0.0005 (J)	<0.005	0.0007 (J)	<0.005					
10/25/2017					<0.005		<0.005	<0.005	0.0024 (J)
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	<0.01
7/11/2018					<0.005		<0.005	<0.005	0.0024 (J)
11/6/2018	<0.005	<0.005	<0.005	<0.005					
11/7/2018					<0.005	<0.005	<0.005	<0.01 (J)	<0.01
8/27/2019	0.00071 (J)	0.0018 (J)	0.00083 (J)	0.0006 (J)	<0.005		<0.005	<0.005	0.0031 (J)
8/28/2019						<0.005		<0.005	
8/29/2019									
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		
10/17/2019								0.00058 (J)	
10/18/2019									0.0027 (J)
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									0.0035 (J)
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								0.0048 (J)	
8/14/2020									0.0033 (J)
9/22/2020	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)						0.0029 (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)				0.0028 (J)
3/4/2021			0.0009 (J)						
9/8/2021		<0.005							
9/9/2021	<0.005			<0.005	<0.005	<0.005	<0.005	<0.005	
9/10/2021			<0.005						



# Time Series

Constituent: Chromium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17
9/13/2021									0.0027 (J)
1/18/2022	<0.005	<0.005							
1/20/2022									
1/21/2022									
1/24/2022								<0.005	0.0029 (J)
1/25/2022				<0.005	<0.005	<0.005	<0.005		
1/26/2022			0.0011 (J)						
9/7/2022	<0.005	<0.005							
9/13/2022							<0.005	<0.005	
9/14/2022									0.0023 (J)
9/15/2022			<0.005	<0.005	<0.005	<0.005			
9/20/2022									
1/31/2023	<0.005	<0.005							
2/1/2023						<0.005	<0.005		
2/2/2023			0.0013 (J)					<0.005	
2/6/2023				<0.005	<0.005				0.0026 (J)
2/7/2023									

# Time Series

Constituent: Chromium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-2	DGWC-20
8/31/2016			
9/1/2016	0.0031 (J)		
9/2/2016			0.0017 (J)
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016	<0.01		<0.005
12/8/2016			
3/28/2017			
3/29/2017	0.0025 (J)		0.0016 (J)
3/30/2017		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	0.0023 (J)		<0.005
8/8/2017			
10/24/2017		<0.005	
10/25/2017	0.0024 (J)		0.0015 (J)
11/15/2017			
2/27/2018		<0.005	
2/28/2018	<0.01		<0.005
7/11/2018	0.0022 (J)	<0.005	<0.005
11/6/2018		<0.005	
11/7/2018	<0.01 (J)		<0.01 (J)
8/27/2019		0.0004 (J)	
8/28/2019	0.0028 (J)		
8/29/2019			0.0017 (J)
9/17/2019			
10/15/2019			
10/16/2019	0.0024 (J)		
10/17/2019		0.00046 (J)	0.0015 (J)
10/18/2019			
3/2/2020			
3/3/2020	0.0028 (J)	<0.005	
3/4/2020			0.0032 (J)
8/11/2020	0.0024 (J)	0.00067 (J)	
8/12/2020			
8/13/2020			0.0023 (J)
8/14/2020			
9/22/2020	0.003 (J)		0.0013 (J)
9/23/2020		<0.005	
9/24/2020			
3/1/2021			
3/2/2021	0.0024 (J)	0.00064 (J)	0.0022 (J)
3/3/2021			
3/4/2021			
9/8/2021			
9/9/2021	0.003 (J)	<0.005	
9/10/2021			<0.005

# Time Series

Constituent: Chromium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-2	DGWC-20
9/13/2021			
1/18/2022			
1/20/2022		<0.005	
1/21/2022			0.0021 (J)
1/24/2022			
1/25/2022	0.0029 (J)		
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022	0.0024 (J)		
9/15/2022			0.0014 (J)
9/20/2022		<0.005	
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	0.0022 (J)	<0.005	
2/7/2023			0.0023 (J)

# Time Series

Constituent: Chromium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-21	DGWC-22	DGWC-23	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		
9/2/2016	<0.005	0.0012 (J)							
9/7/2016					<0.005				
12/6/2016								<0.005	<0.005
12/8/2016	<0.005	<0.005			<0.005	<0.005	<0.005		
3/28/2017				0.0005 (J)				<0.005	
3/29/2017		<0.005							0.0004 (J)
3/30/2017	0.0005 (J)		0.0012 (J)				<0.005		
3/31/2017					0.001 (J)	0.0007 (J)			
5/12/2017			0.0004 (J)	<0.005					
6/15/2017			0.0005 (J)	<0.005					
7/11/2017				<0.005				<0.005	<0.005
7/12/2017	0.0006 (J)		0.0007 (J)						
7/13/2017		<0.005			0.0008 (J)	<0.005	0.0007 (J)		
10/24/2017				<0.005					<0.005
10/25/2017	<0.005	<0.005			0.0005 (J)			<0.005	
10/26/2017			0.0007 (J)			<0.005	<0.005		
2/27/2018				<0.005				<0.005	<0.005
2/28/2018	<0.005	<0.005			<0.005				
3/1/2018			<0.005			<0.005			
3/2/2018							<0.005		
7/11/2018	<0.005				<0.005				
7/12/2018		<0.005	<0.005			<0.005	<0.005		
11/6/2018				<0.005				<0.005	<0.005
11/7/2018	<0.005	<0.005			<0.005	<0.005	<0.005		
11/8/2018			<0.005						
8/27/2019				<0.005				<0.005	
8/28/2019					<0.005				<0.005
8/29/2019	0.00041 (J)	<0.005	<0.005			<0.005	<0.005		
10/15/2019				<0.005					
10/16/2019								<0.005	0.0013 (J)
10/17/2019	<0.005				0.00041 (J)	<0.005			
10/18/2019		<0.005	0.00041 (J)				<0.005		
3/2/2020				<0.005				0.00045 (J)	
3/3/2020	0.00048 (J)	<0.005							0.00061 (J)
3/4/2020			0.00081 (J)		0.00042 (J)	<0.005	0.0004 (J)		
8/11/2020									
8/12/2020				<0.005		<0.005		<0.005	0.0028 (J)
8/13/2020			0.00085 (J)		0.0021 (J)		<0.005		
8/14/2020	<0.005	<0.005							
9/22/2020				<0.005	0.001 (J)			<0.005	
9/23/2020						<0.005	<0.005		0.00086 (J)
9/24/2020	0.00096 (J)	<0.005	0.00084 (J)						
3/1/2021				<0.005					
3/2/2021								<0.005	0.0015 (J)
3/3/2021	0.002 (J)	<0.005	0.0014 (J)		<0.005	<0.005	<0.005		
9/9/2021	<0.005		<0.005						
9/10/2021		<0.005		<0.005		<0.005	<0.005	<0.005	
9/13/2021					<0.005				<0.005
1/20/2022	<0.005	<0.005	<0.005		<0.005				

# Time Series

Constituent: Chromium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8
1/21/2022						<0.005			
1/24/2022				<0.005			<0.005	<0.005	
1/25/2022									<0.005
1/26/2022									
9/13/2022					<0.005	<0.005	<0.005		
9/14/2022								<0.005	
9/15/2022	<0.005								<0.005
9/16/2022		<0.005							
9/19/2022				<0.005					
9/20/2022			<0.005						
2/1/2023					<0.005				
2/3/2023				<0.005		<0.005	<0.005		
2/6/2023		<0.005	<0.005						
2/7/2023	<0.005							<0.005	<0.005

# Time Series

Constituent: Chromium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-9
8/30/2016	<0.005
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	<0.005
12/8/2016	
3/28/2017	0.001 (J)
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	<0.005
7/12/2017	
7/13/2017	
10/24/2017	<0.005
10/25/2017	
10/26/2017	
2/27/2018	<0.005
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	<0.005
7/12/2018	
11/6/2018	<0.005
11/7/2018	
11/8/2018	
8/27/2019	0.00048 (J)
8/28/2019	
8/29/2019	
10/15/2019	
10/16/2019	
10/17/2019	0.00051 (J)
10/18/2019	
3/2/2020	
3/3/2020	0.0057 (J)
3/4/2020	
8/11/2020	0.00061 (J)
8/12/2020	
8/13/2020	
8/14/2020	
9/22/2020	<0.005
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	0.00059 (J)
3/3/2021	
9/9/2021	
9/10/2021	<0.005
9/13/2021	
1/20/2022	

# Time Series

Constituent: Chromium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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DGWC-9

1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	0.0029 (J)
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	<0.005
9/20/2022	
2/1/2023	
2/3/2023	0.0013 (J)
2/6/2023	
2/7/2023	

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D
7/23/2020	0.086								
8/3/2020	0.087								
8/17/2020	0.077								
9/25/2020	0.034								
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	0.029							<0.005	
4/15/2021									
9/10/2021			0.013					<0.005	
9/13/2021	0.035	0.003 (J)			0.00056 (J)	0.00083 (J)			
9/14/2021				0.1			0.0017 (J)		<0.005
1/20/2022								<0.005	
1/21/2022	0.034								
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						
6/6/2022									
9/8/2022	0.028								
9/13/2022				0.14					
9/14/2022						0.00061 (J)			<0.005
9/15/2022			0.012				0.001 (J)		
9/16/2022		0.0035 (J)			<0.005				
9/19/2022									
9/20/2022								<0.005	
2/2/2023	<0.005		0.011						
2/3/2023		0.0022 (J)		0.17					
2/6/2023						0.0007 (J)		<0.005	
2/7/2023					<0.005		0.001 (J)		0.0004 (J)



# Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-122D	B-56
7/23/2020			
8/3/2020			
8/17/2020			0.042
9/25/2020			
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			
4/15/2021	0.017		
9/10/2021			
9/13/2021			0.047
9/14/2021	0.0055		
1/20/2022	0.0045 (J)		
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022			0.052
6/6/2022		0.006	
9/8/2022			
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022			0.051
9/19/2022	0.0027 (J)		
9/20/2022			
2/2/2023			
2/3/2023	0.0025 (J)		
2/6/2023		0.007	
2/7/2023			0.059

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93
3/28/2017									
5/11/2017									
6/15/2017									
7/12/2017									
10/24/2017									
3/8/2018									
7/12/2018									
11/7/2018									
1/28/2019		0.053							
1/30/2019	<0.005		<0.01						
8/28/2019									
9/11/2019	0.0003 (J)	0.043							
9/12/2019			0.006						
9/18/2019				0.0031 (J)					
9/23/2019					0.0038 (J)				
10/16/2019									
10/21/2019	0.00031 (J)		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									
3/9/2020									
8/13/2020	<0.005			0.0011 (J)					
8/14/2020						0.021			
8/17/2020					0.0028 (J)		0.0031 (J)		
8/19/2020									0.068
9/22/2020									
9/24/2020	<0.005			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	<0.005	0.046	0.01		0.0021 (J)				
3/15/2021									
9/9/2021	<0.005								
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
9/16/2021						0.011			
1/20/2022	<0.005	0.039		<0.005					
1/21/2022						0.011			
1/25/2022			0.013		0.0039 (J)				
1/26/2022								0.071	0.064
1/27/2022							0.0038 (J)		
1/28/2022									
9/8/2022	<0.005								
9/9/2022	<0.005								
9/12/2022								0.073	0.057
9/13/2022				<0.005 (D)		0.012			
9/14/2022		0.0465 (D)							

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93
9/16/2022									
1/31/2023			0.012 (D)		0.00175 (JD)		0.00135 (JD)		
2/1/2023								0.08	0.067
2/2/2023	<0.005	0.027							
2/3/2023						0.012			
2/6/2023				<0.005					
2/7/2023			0.015		0.0028 (J)		0.0031 (J)		

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-97	B-98	DGWA-53 (bg)
3/28/2017			0.025
5/11/2017			0.0281
6/15/2017			0.0322
7/12/2017			0.0247
10/24/2017			0.0267
3/8/2018			0.027
7/12/2018			0.024
11/7/2018			0.018
1/28/2019			
1/30/2019			
8/28/2019			0.013
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/16/2019			0.009
10/21/2019			
10/22/2019			
10/24/2019			
11/22/2019			
12/19/2019			
2/17/2020		<0.005	
3/9/2020			0.016
8/13/2020			0.0051
8/14/2020			
8/17/2020			
8/19/2020			
9/22/2020			0.011
9/24/2020			
9/25/2020			
9/28/2020			
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021			0.0078
3/15/2021		<0.005	
9/9/2021			0.0064
9/13/2021			
9/14/2021			
9/15/2021	0.003 (J)	0.0048 (J)	
9/16/2021			
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	0.003 (J)	<0.005	
1/27/2022			
1/28/2022			0.014
9/8/2022			0.012
9/9/2022			
9/12/2022			
9/13/2022	0.0029 (J)	0.00063 (J)	
9/14/2022			

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-97	B-98	DGWA-53 (bg)
9/16/2022			
1/31/2023		<0.005	
2/1/2023	0.0033 (J)		0.008
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17
8/31/2016			0.193	<0.01			<0.005		
9/1/2016					0.0021 (J)				
9/2/2016									
9/6/2016						<0.005		0.0042 (J)	
9/7/2016									0.0247
12/6/2016			0.2	0.0006 (J)			<0.005		
12/7/2016					0.0026 (J)	<0.005		0.0028 (J)	
12/8/2016									0.029
3/28/2017	0.0034 (J)	0.0033 (J)							
3/29/2017			0.184	<0.01	0.0026 (J)		<0.005		
3/30/2017						0.0005 (J)		0.0024 (J)	0.0283
5/11/2017									
5/12/2017		0.0016 (J)							
5/15/2017	0.0024 (J)								
6/15/2017	0.0014 (J)								
6/16/2017		0.0011 (J)							
7/11/2017	0.0007 (J)	0.0008 (J)							
7/12/2017			0.177	<0.01	0.0033 (J)	0.0004 (J)	<0.005	0.002 (J)	0.023
8/8/2017	0.0007 (J)								
10/24/2017	<0.005	0.0004 (J)	0.175	<0.01					
10/25/2017					0.0021 (J)		<0.005	0.0019 (J)	0.0259
11/15/2017						<0.005			
2/27/2018	<0.005	<0.005	0.2	<0.01	<0.01		<0.005		
2/28/2018						<0.005		<0.01	0.02
7/11/2018					0.002 (J)		<0.005	0.0018 (J)	0.025
11/6/2018	<0.005	<0.005	0.2	<0.01					
11/7/2018					<0.01 (J)	<0.005	<0.005	0.025	<0.01 (J)
8/27/2019	<0.005	<0.005	0.13	0.00076 (J)	0.0021 (J)		<0.005		0.031
8/28/2019						<0.005		0.0015 (J)	
8/29/2019									
9/17/2019					0.0079				
10/15/2019	0.00064 (J)	<0.005	0.17	0.0006 (J)	0.0058				
10/16/2019						<0.005	<0.005		
10/17/2019								0.0018 (J)	
10/18/2019									0.023
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									0.023
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								0.0024 (J)	
8/14/2020									0.026
9/22/2020	<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						0.028
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				0.016
3/4/2021			0.071						
9/8/2021		<0.005							
9/9/2021	<0.005			0.00081 (J)	0.034	<0.005	<0.005	0.0016 (J)	
9/10/2021			0.076						

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17
9/13/2021									0.019
1/18/2022	<0.005	<0.005							
1/20/2022									
1/21/2022									
1/24/2022								0.0015 (J)	0.019
1/25/2022				0.0015 (J)	0.018	<0.005	<0.005		
1/26/2022			0.099						
9/7/2022	<0.005	<0.005							
9/13/2022							<0.005	0.0016 (J)	
9/14/2022									0.016
9/15/2022			0.055	0.001 (J)	0.025	<0.005			
9/20/2022									
1/31/2023	<0.005	<0.005							
2/1/2023						<0.005	<0.005		
2/2/2023			0.11					0.0017 (J)	
2/6/2023				0.0013 (J)	0.016				0.017
2/7/2023									

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-2	DGWC-20
8/31/2016			
9/1/2016	0.0553		
9/2/2016			0.497
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016	0.0561		0.614
12/8/2016			
3/28/2017			
3/29/2017	0.0534		0.443
3/30/2017		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	0.0489		0.538
8/8/2017			
10/24/2017		0.0292	
10/25/2017	0.0514		0.432
11/15/2017			
2/27/2018		0.042	
2/28/2018	0.0511		0.459
7/11/2018	0.051	0.02	0.47
11/6/2018		0.024	
11/7/2018	0.048		0.42
8/27/2019		0.0088	
8/28/2019	0.048		
8/29/2019			0.66
9/17/2019			
10/15/2019			
10/16/2019	0.046		
10/17/2019		0.0084	0.57
10/18/2019			
3/2/2020			
3/3/2020	0.054	0.0073	
3/4/2020			0.84
8/11/2020	0.049	0.0064	
8/12/2020			
8/13/2020			0.73
8/14/2020			
9/22/2020	0.051		0.47
9/23/2020		0.0062	
9/24/2020			
3/1/2021			
3/2/2021	0.051	0.0055	0.77
3/3/2021			
3/4/2021			
9/8/2021			
9/9/2021	0.055	0.0048 (J)	
9/10/2021			0.45



# Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-19	DGWC-2	DGWC-20
9/13/2021			
1/18/2022			
1/20/2022		0.004 (J)	
1/21/2022			0.95
1/24/2022			
1/25/2022	0.054		
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022	0.052		
9/15/2022			0.75
9/20/2022		0.0028 (J)	
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	0.055	0.0024 (J)	
2/7/2023			1

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-21	DGWC-22	DGWC-23	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		
9/2/2016	0.0085 (J)	0.0102							
9/7/2016					0.0695				
12/6/2016								0.0432	0.0873
12/8/2016	0.0095 (J)	0.0079 (J)			0.0652	0.381	0.575		
3/28/2017				0.0018 (J)				0.04	
3/29/2017		0.0097 (J)							0.0902
3/30/2017	0.0076 (J)		<0.005				0.573		
3/31/2017					0.0524	0.354			
5/12/2017			<0.005	0.0015 (J)					
6/15/2017			0.0003 (J)	0.0015 (J)					
7/11/2017				0.0015 (J)				0.0351 (J)	0.0601
7/12/2017	0.0092 (J)		<0.005						
7/13/2017		0.0106			0.0481	0.396	0.531		
10/24/2017				0.0017 (J)					0.123
10/25/2017	0.0092 (J)	0.0094 (J)			0.0435			0.0209	
10/26/2017			<0.005			0.383	0.482		
2/27/2018				<0.01				0.024	0.126
2/28/2018	<0.01	<0.01			0.0167				
3/1/2018			<0.005			0.401			
3/2/2018							0.49		
7/11/2018	0.0097 (J)				0.019				
7/12/2018		0.011	<0.005			0.36	0.46		
11/6/2018				<0.01 (J)				0.019	0.077
11/7/2018	<0.01 (J)	<0.01 (J)			0.02	0.35	0.48		
11/8/2018			<0.01 (J)						
8/27/2019				0.0018 (J)				0.02	
8/28/2019					0.029				0.051
8/29/2019	0.01	0.0094	0.00036 (J)			0.28	0.42		
10/15/2019				0.0018 (J)					
10/16/2019								0.022	0.054
10/17/2019	0.01				0.03	0.26			
10/18/2019		0.0084	<0.005				0.41		
3/2/2020				0.0021 (J)				0.028	
3/3/2020	0.01	0.0098							0.044
3/4/2020			0.00043 (J)		0.014	0.28	0.42		
8/11/2020									
8/12/2020				0.0018 (J)		0.21		0.021	0.053
8/13/2020			0.00048 (J)		0.025		0.35		
8/14/2020	0.0098	0.0087							
9/22/2020				0.0014 (J)	0.014			0.02	
9/23/2020						0.17	0.37		0.04
9/24/2020	0.01	0.01	<0.005						
3/1/2021				0.002 (J)					
3/2/2021								0.021	0.033
3/3/2021	0.0087	0.0078	0.00039 (J)		0.0087	0.2	0.36		
9/9/2021	0.0096		0.00049 (J)						
9/10/2021		0.0076		0.0019 (J)		0.23	0.36	0.022	
9/13/2021					0.008				0.028
1/20/2022	0.0076	0.0075	0.00058 (J)		0.0056				

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8
1/21/2022						0.24			
1/24/2022				0.0019 (J)			0.34	0.025	
1/25/2022									0.019
1/26/2022									
9/13/2022					0.0069	0.21	0.31		
9/14/2022								0.027	
9/15/2022	0.0081								0.0046 (J)
9/16/2022		0.0098							
9/19/2022				0.0018 (J)					
9/20/2022			0.00053 (J)						
2/1/2023					0.0068				
2/3/2023				0.0018 (J)		0.21	0.31		
2/6/2023		0.0058	0.00064 (J)						
2/7/2023	0.0088							0.021	0.0018 (J)

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-9
8/30/2016	0.0896
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	0.122
12/8/2016	
3/28/2017	0.124
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	0.136
7/12/2017	
7/13/2017	
10/24/2017	0.151
10/25/2017	
10/26/2017	
2/27/2018	0.163
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	0.18
7/12/2018	
11/6/2018	0.2
11/7/2018	
11/8/2018	
8/27/2019	0.24
8/28/2019	
8/29/2019	
10/15/2019	
10/16/2019	
10/17/2019	0.21
10/18/2019	
3/2/2020	
3/3/2020	0.2
3/4/2020	
8/11/2020	0.22
8/12/2020	
8/13/2020	
8/14/2020	
9/22/2020	0.16
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	0.18
3/3/2021	
9/9/2021	
9/10/2021	0.21
9/13/2021	
1/20/2022	

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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DGWC-9

1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	0.22
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	0.25
9/20/2022	
2/1/2023	
2/3/2023	0.21
2/6/2023	
2/7/2023	

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D
8/17/2020	1.4 (U)								
9/25/2020	0.799 (U)								
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	0.168 (U)							12.1	
4/15/2021									
9/10/2021			1.74					9.45	
9/13/2021	0.774 (U)	1.8			0.625 (U)	0.813 (U)			
9/14/2021				9.6			0.917 (U)		4.39
1/20/2022								16.2	
1/21/2022	0.769 (U)								
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)						
9/8/2022	0.643 (U)								
9/13/2022				9.12					
9/14/2022						0.737 (U)			6.23
9/15/2022			0.61 (U)				1.36		
9/16/2022		1.64			0.655 (U)				
9/19/2022									
9/20/2022								16.5	
2/2/2023	0.981		0.676 (U)						
2/3/2023		0.426 (U)		14.8					
2/6/2023						0.459 (U)		17.7	
2/7/2023					0.642 (U)		0.975		6.24

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-122D	B-56
8/17/2020			1.15 (U)
9/25/2020			
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			
4/15/2021	2.31		
9/10/2021			
9/13/2021			0.854 (U)
9/14/2021	3.68		
1/20/2022	1.21 (U)		
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022			0.831 (U)
9/8/2022			
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022			0.752 (U)
9/19/2022	2.22		
9/20/2022			
2/2/2023			
2/3/2023	1.81		
2/6/2023		8.22	
2/7/2023			1.01 (U)

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93
3/28/2017									
5/11/2017									
6/15/2017									
7/12/2017									
10/24/2017									
3/8/2018									
7/12/2018									
11/7/2018									
1/28/2019		2.14 (U)							
1/30/2019	1.97 (U)		0.975 (U)						
8/28/2019									
10/16/2019									
10/21/2019	1.82		1.07 (U)		0.63 (U)	0.792 (U)			
10/22/2019		1.28 (U)							
10/24/2019				1.87					
3/9/2020									
8/13/2020	1.63			2.17					
8/14/2020						0.95 (U)			
8/17/2020					0.662 (U)		2.47		
8/19/2020									1.19 (U)
9/22/2020									
9/24/2020	1.28 (U)			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)
3/12/2021	1.18 (U)								
9/9/2021	1.7								
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
9/16/2021						0.442 (U)			
1/20/2022	1.71	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)
1/27/2022							1.18		
1/28/2022									
9/8/2022									
9/9/2022	1.96								
9/12/2022								2.34	1.09
9/13/2022				1.11		0.893 (U)			
9/14/2022		1.61							
9/16/2022			0.832 (U)		0.694 (U)		1.25		
1/31/2023								2.04	1.68
2/1/2023									
2/2/2023	1.6	1.01							
2/3/2023						0.279 (U)			
2/6/2023				0.747 (U)					
2/7/2023			0.764 (U)		0.776 (U)		1.77		



# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-97	B-98	DGWA-53 (bg)
3/28/2017			6.36
5/11/2017			3.45
6/15/2017			4.58
7/12/2017			4.37
10/24/2017			4.46
3/8/2018			2.14
7/12/2018			4.65
11/7/2018			3.05
1/28/2019			
1/30/2019			
8/28/2019			2.68
10/16/2019			1.89
10/21/2019			
10/22/2019			
10/24/2019			
3/9/2020			3.51
8/13/2020			1.04
8/14/2020			
8/17/2020			
8/19/2020			
9/22/2020			2.27
9/24/2020			
9/25/2020			
9/28/2020			
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021			1.63
9/9/2021			2.72
9/13/2021			
9/14/2021			
9/15/2021	2.11	2.2	
9/16/2021			
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	1.47 (U)	0.52 (U)	
1/27/2022			
1/28/2022			2.1
9/8/2022			1.69
9/9/2022			
9/12/2022			
9/13/2022	1.11	2.03	
9/14/2022			
9/16/2022			
1/31/2023		0.873 (U)	
2/1/2023	1.33		1.92
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17
8/31/2016			1.08	1.09			0.997 (U)		
9/1/2016					1.11				
9/2/2016									
9/6/2016						1.32		0.731 (U)	
9/7/2016									1.17
12/6/2016			1.31	0.409 (U)			0.659 (U)		
12/7/2016					2.66	1.76		1.73	
12/8/2016									1.65
3/28/2017	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)	0.865 (U)
5/11/2017									
5/12/2017		0.165 (U)							
5/15/2017	0.288 (U)								
6/15/2017	1.01 (U)								
6/16/2017		0.732 (U)							
7/11/2017	0.254 (U)	0.461 (U)							
7/12/2017			0.831	0.85 (U)	0.538 (U)	1.36	1.03 (U)	0.584 (U)	0.362 (U)
8/8/2017	1.48								
10/24/2017	0.472 (U)	0.724 (U)	0.838 (U)	0.98 (U)					
10/25/2017					0.216 (U)		0.607 (U)	0.454 (U)	0.401 (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	1.1 (U)
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	0.64 (U)
11/6/2018	0.859 (U)	0.455 (U)	1.46	1.41					
11/7/2018					0.414 (U)	1.22 (U)	0.593 (U)	0.786 (U)	0.795 (U)
8/27/2019	1.97	1.3 (U)	1.58	2.13	0.434 (U)		1.17 (U)		1.12
8/28/2019						1.43		1.01 (U)	
8/29/2019									
10/15/2019	0.319 (U)	1.21 (U)	0.831 (U)	0.622 (U)	0.359 (U)				
10/16/2019						1.73	1.04 (U)		
10/17/2019								1.03 (U)	
10/18/2019									0.89 (U)
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									0.493 (U)
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								3.58	
8/14/2020									0.804 (U)
9/22/2020	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						0.369 (U)
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				0.66 (U)
3/4/2021			1.48						
9/8/2021		0.051 (U)							
9/9/2021	0.779 (U)			1.2 (U)	1.78	1.23 (U)	0.643 (U)	0.624 (U)	
9/10/2021			0.882 (U)						



# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-2	DGWC-20
8/31/2016			
9/1/2016	1.07 (U)		
9/2/2016			1.48
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016	0.903 (U)		1.26 (U)
12/8/2016			
3/28/2017			
3/29/2017	0.302 (U)		0.373 (U)
3/30/2017		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	0.283 (U)		0.91 (U)
8/8/2017			
10/24/2017		1.19	
10/25/2017	0.927 (U)		0.853 (U)
11/15/2017			
2/27/2018		0.863 (U)	
2/28/2018	0.813 (U)		0.727 (U)
7/10/2018			
7/11/2018	0.751 (U)	0.663 (U)	1.3
11/6/2018		0.664	
11/7/2018	1.02		0.746 (U)
8/27/2019		1.6	
8/28/2019	0.661 (U)		
8/29/2019			0.996 (U)
10/15/2019			
10/16/2019	1.79		
10/17/2019		1.74	2
10/18/2019			
3/2/2020			
3/3/2020	0.383 (U)	1.23	
3/4/2020			1.67
8/11/2020	0.723 (U)	1.37	
8/12/2020			
8/13/2020			1.77
8/14/2020			
9/22/2020	0.96 (U)		1.61 (U)
9/23/2020		1.96 (U)	
9/24/2020			
3/1/2021			
3/2/2021	0.775 (U)	1.54 (U)	1.76
3/3/2021			
3/4/2021			
9/8/2021			
9/9/2021	0.239 (U)	1.22 (U)	
9/10/2021			0.689 (U)

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-19	DGWC-2	DGWC-20
9/13/2021			
1/18/2022			
1/20/2022		0.722 (U)	
1/21/2022			0.826 (U)
1/24/2022			
1/25/2022	0.415 (U)		
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022	0.674 (U)		
9/15/2022			1.38
9/20/2022		0.45 (U)	
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	1.23	0.5 (U)	
2/7/2023			1.92

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8
8/30/2016									0.919 (U)
8/31/2016								2.49	
9/1/2016						4.47	2.37		
9/2/2016	0.908 (U)	1.54							
9/7/2016					0.876 (U)				
12/6/2016								0.348 (U)	0.407 (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		0.715 (U)							0.28 (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	0.209 (U)
7/12/2017	1.22		0.703 (U)						
7/13/2017		1.14			1.08 (U)	2.37	1.78		
10/24/2017				1.24					0.615 (U)
10/25/2017	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	1.05 (U)
2/28/2018	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)	0.363 (U)
7/11/2018	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	0.577 (U)
11/7/2018	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)				0.815 (U)
8/29/2019	0.582 (U)	1.87	2.21			3.05	2.37		
10/15/2019				2.11 (U)					
10/16/2019								1.63	0.999 (U)
10/17/2019	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)							0.481 (U)
3/4/2020			1.39		0.722 (U)	1.68	1.31		
8/11/2020									
8/12/2020				1.95		2.56		1.13	0.721 (U)
8/13/2020			1.48 (U)		1.23 (U)		1.74		
8/14/2020	0.602 (U)	1.83							
9/22/2020				1.43 (U)	1.03 (U)			1.4 (U)	
9/23/2020						2.3 (U)	1.51 (U)		0.8 (U)
9/24/2020	0.396 (U)	1.02 (U)	1.49						
3/1/2021				1.05 (U)					
3/2/2021								0.971 (U)	0.751 (U)
3/3/2021	0.248 (U)	0.547 (U)	1.05 (U)		0.92 (U)	1.27 (U)	1.41		
9/9/2021	0.702 (U)		1.81						
9/10/2021		0.616 (U)		1.46		2.32	2.21	1.15	
9/13/2021					1.15 (U)				0.916 (U)

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8
1/20/2022	0.337 (U)	0.298 (U)	0.61 (U)		0.0465 (U)				
1/21/2022						0.785 (U)			
1/24/2022				0.944 (U)			0.668 (U)	0.807 (U)	
1/25/2022									0.356 (U)
1/26/2022									
9/13/2022					0.829 (U)	1.97	1.42		
9/14/2022								0.665 (U)	
9/15/2022	0.771 (U)								0.896
9/16/2022		1.01							
9/19/2022				1.55					
9/20/2022			1.17 (U)						
2/1/2023					0.599 (U)				
2/3/2023				1.51		1.8	1.4		
2/6/2023		0.975	1.44						
2/7/2023	0.582 (U)							1.26	0.737 (U)

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-9
8/30/2016	1.33
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	0.828 (U)
12/8/2016	
3/28/2017	1.06
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	0.62 (U)
7/12/2017	
7/13/2017	
10/24/2017	1.21
10/25/2017	
10/26/2017	
2/27/2018	1.79
2/28/2018	
3/1/2018	
3/2/2018	
7/10/2018	
7/11/2018	1.81
7/12/2018	
11/6/2018	1.13
11/7/2018	
11/8/2018	
8/27/2019	1.55
8/28/2019	
8/29/2019	
10/15/2019	
10/16/2019	
10/17/2019	0.702 (U)
10/18/2019	
3/2/2020	
3/3/2020	1.37
3/4/2020	
8/11/2020	0.819 (U)
8/12/2020	
8/13/2020	
8/14/2020	
9/22/2020	1.15 (U)
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	1.29 (U)
3/3/2021	
9/9/2021	
9/10/2021	1.28
9/13/2021	



# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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DGWC-9

1/20/2022	
1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	0.789 (U)
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	1.38
9/20/2022	
2/1/2023	
2/3/2023	0.949 (U)
2/6/2023	
2/7/2023	

# Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D
8/17/2020	<0.1								
9/25/2020	<0.1								
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	<0.1							0.14	
4/15/2021									
9/10/2021			0.083 (J)					0.15	
9/13/2021	<0.1	0.051 (J)			0.052 (J)	<0.1			
9/14/2021				0.5			<0.1		0.57
1/20/2022								0.11	
1/21/2022	<0.1								
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)						
6/6/2022									
9/8/2022	0.072 (J)								
9/13/2022				0.35					
9/14/2022						0.053 (J)			0.38
9/15/2022			0.11				0.061 (J)		
9/16/2022		0.099 (J)			0.08 (J)				
9/19/2022									
9/20/2022								0.15	
2/2/2023	0.052 (J)		0.091 (J)						
2/3/2023		0.11		0.36					
2/6/2023						<0.1		0.14	
2/7/2023					0.067 (J)		<0.1		0.36

# Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-122D	B-56
8/17/2020			0.19
9/25/2020			
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			
4/15/2021	<0.1		
9/10/2021			
9/13/2021			0.2
9/14/2021	<0.1		
1/20/2022	<0.1		
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022			0.21
6/6/2022		0.2	
9/8/2022			
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022			0.22
9/19/2022	0.057 (J)		
9/20/2022			
2/2/2023			
2/3/2023	0.052 (J)		
2/6/2023		0.21	
2/7/2023			0.19

# Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93
3/28/2017									
5/11/2017									
6/15/2017									
7/12/2017									
10/24/2017									
11/15/2017									
3/8/2018									
7/12/2018									
11/7/2018									
1/28/2019		0.45							
1/30/2019	0.43		0.51						
3/13/2019									
8/28/2019									
10/16/2019									
10/21/2019	0.23 (J)		0.3 (J)		0.2 (J)	0.13 (J)			
10/22/2019		0.2 (J)							
10/24/2019				0.096 (J)					
3/9/2020									
8/13/2020	0.11			<0.1					
8/14/2020						0.05 (J)			
8/17/2020					<0.1		<0.1		
8/19/2020									0.32
9/22/2020									
9/24/2020	0.093 (J)			<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
3/12/2021	0.11								
9/9/2021	0.14								
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
9/16/2021						0.066 (J)			
1/20/2022	0.099 (J)	0.12		<0.1					
1/21/2022						<0.1			
1/25/2022			0.12		<0.1				
1/26/2022								0.3	0.41
1/27/2022							<0.1		
1/28/2022									
9/8/2022	0.13								
9/12/2022								0.24	0.4
9/13/2022				0.08 (J)		0.081 (J)			
9/14/2022		0.14							
9/16/2022			0.18		0.079 (J)		0.054 (J)		
1/31/2023								0.2	0.4
2/1/2023									
2/2/2023	0.16	0.13							
2/3/2023						0.12			
2/6/2023				0.069 (J)					
2/7/2023			0.12		0.086 (J)		<0.1		

# Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-97	B-98	DGWA-53 (bg)
3/28/2017			0.12 (J)
5/11/2017			0.07 (J)
6/15/2017			0.19 (J)
7/12/2017			0.1 (J)
10/24/2017			0.06 (J)
11/15/2017			0.05 (J)
3/8/2018			<0.3
7/12/2018			0.071 (J)
11/7/2018			<0.3
1/28/2019			
1/30/2019			
3/13/2019			0.13 (J)
8/28/2019			0.42
10/16/2019			0.11 (J)
10/21/2019			
10/22/2019			
10/24/2019			
3/9/2020			0.1 (J)
8/13/2020			0.062 (J)
8/14/2020			
8/17/2020			
8/19/2020			
9/22/2020			0.099 (J)
9/24/2020			
9/25/2020			
9/28/2020			
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021			0.076 (J)
9/9/2021			0.099 (J)
9/13/2021			
9/14/2021			
9/15/2021	0.085 (J)	0.098 (J)	
9/16/2021			
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	0.088 (J)	0.13	
1/27/2022			
1/28/2022			0.08 (J)
9/8/2022			0.11
9/12/2022			
9/13/2022	0.14	0.18	
9/14/2022			
9/16/2022			
1/31/2023		0.19	
2/1/2023	0.11		0.1
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			

# Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17
8/31/2016			1	0.06 (J)			0.06 (J)		
9/1/2016					0.02 (J)				
9/2/2016									
9/6/2016						0.17 (J)		0.11 (J)	
9/7/2016									0.32
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									0.31
3/28/2017	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	0.1 (J)
5/11/2017									
5/12/2017		<0.1							
5/15/2017	0.005 (J)								
6/15/2017	0.02 (J)								
6/16/2017		0.008 (J)							
7/11/2017	0.06 (J)	0.007 (J)							
7/12/2017			1.7	0.03 (J)	0.2 (J)	0.13 (J)	<0.1	0.07 (J)	0.27 (J)
8/8/2017	0.04 (J)								
10/24/2017	<0.1	<0.1	2.1	<0.1					
10/25/2017					0.6		<0.1	0.26 (J)	0.49
11/15/2017		<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	0.54
7/11/2018					<0.1		<0.1	<0.1	0.15 (J)
11/6/2018	<0.1	<0.1	2	<0.1					
11/7/2018					<0.3 (J)	<0.3 (J)	<0.1	<0.1	<0.3 (J)
3/12/2019	0.039 (J)	<0.1	1.7	0.052 (J)	0.065 (J)				
3/13/2019						0.13 (J)	0.042 (J)		0.084 (J)
3/14/2019								0.057 (J)	
8/27/2019	<0.1	<0.1	1.4	<0.1	<0.1		<0.1		0.24 (J)
8/28/2019						0.091 (J)		<0.1	
8/29/2019									
10/15/2019	<0.1	<0.1	1.4	<0.1	<0.1				
10/16/2019						0.14 (J)	0.052 (J)		
10/17/2019								0.079 (J)	
10/18/2019									0.086 (J)
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									<0.1
8/11/2020	<0.1	<0.1	1.4	<0.1	<0.1		<0.1		
8/12/2020						0.051 (J)			
8/13/2020								<0.1	
8/14/2020									0.069 (J)
9/22/2020	<0.1	<0.1		<0.1	<0.1		<0.1		
9/23/2020						0.058 (J)		<0.1	
9/24/2020			0.97						0.056 (J)
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)				0.085 (J)
3/4/2021			1.8						
9/8/2021		<0.1							

# Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17
9/9/2021	<0.1			<0.1	0.099 (J)	0.083 (J)	<0.1	<0.1	
9/10/2021			2.2						
9/13/2021									0.063 (J)
1/18/2022	<0.1	<0.1							
1/20/2022									
1/21/2022									
1/24/2022								<0.1	<0.1
1/25/2022				<0.1	0.093 (J)	0.063 (J)	<0.1		
1/26/2022			1.8						
9/7/2022	0.061 (J)	0.056 (J)							
9/13/2022							0.059 (J)	0.065 (J)	
9/14/2022									0.1
9/15/2022			0.84	0.064 (J)	0.078 (J)	0.095 (J)			
9/20/2022									
1/31/2023	0.053 (J)	0.05 (J)							
2/1/2023						0.09 (J)	0.067 (J)		
2/2/2023			1.1					0.065 (J)	
2/6/2023				<0.1	0.1				0.096 (J)
2/7/2023									

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Constituent: Fluoride (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-2	DGWC-20
8/31/2016			
9/1/2016	0.75		
9/2/2016			0.66
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016	0.37		0.66
12/8/2016			
3/28/2017			
3/29/2017	0.35		0.34
3/30/2017		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	0.34		0.41
8/8/2017			
10/24/2017		0.43	
10/25/2017	0.9		0.68
11/15/2017			
2/27/2018		0.28	
2/28/2018	1.2		0.76
7/11/2018	0.37	0.6	1.3
11/6/2018		<0.1	
11/7/2018	<0.3 (J)		<0.3 (J)
3/12/2019		0.052 (J)	
3/13/2019	0.22 (J)		0.45
3/14/2019			
8/27/2019		<0.1	
8/28/2019	0.2		
8/29/2019			0.78
10/15/2019			
10/16/2019	0.23 (J)		
10/17/2019		0.042 (J)	0.26 (J)
10/18/2019			
3/2/2020			
3/3/2020	0.056 (J)	<0.1	
3/4/2020			1.5
8/11/2020	0.2	<0.1	
8/12/2020			
8/13/2020			0.9
8/14/2020			
9/22/2020	0.084 (J)		0.15
9/23/2020		<0.1	
9/24/2020			
3/1/2021			
3/2/2021	0.19	<0.1	1.4
3/3/2021			
3/4/2021			
9/8/2021			



# Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-19	DGWC-2	DGWC-20
9/9/2021	0.18	0.053 (J)	
9/10/2021			0.25
9/13/2021			
1/18/2022			
1/20/2022		<0.1	
1/21/2022			1.3
1/24/2022			
1/25/2022	0.16		
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022	0.18		
9/15/2022			0.69
9/20/2022		0.076 (J)	
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	0.22	0.072 (J)	
2/7/2023			1.1

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Constituent: Fluoride (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8
8/30/2016									0.39
8/31/2016								1	
9/1/2016						1.8	1.5		
9/2/2016	0.07 (J)	0.3							
9/7/2016					0.02 (J)				
12/6/2016								0.76	0.47
12/8/2016	0.14 (J)	0.12 (J)			0.06 (J)	1.1	1.6		
3/28/2017				0.17 (J)				1.2	
3/29/2017		0.11 (J)							0.51
3/30/2017	<0.1		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	0.2 (J)
7/12/2017	0.04 (J)		0.22 (J)						
7/13/2017		0.09 (J)			<0.1	0.84	1.1		
10/24/2017				<0.1					0.82
10/25/2017	0.34	0.25 (J)			<0.1			1.4	
10/26/2017			0.66			1	1.7		
11/15/2017				0.79					
2/27/2018				<0.1				1.3	0.59
2/28/2018	<0.1	<0.1			<0.1				
3/1/2018			0.18			1.4			
3/2/2018							1.1		
7/11/2018	<0.1				<0.1				
7/12/2018		0.13 (J)	0.25 (J)			0.96	0.65		
11/6/2018				<0.1				<0.3 (J)	0.35
11/7/2018	<0.1	<0.1			<0.1	0.74	0.63		
11/8/2018			<0.3 (J)						
3/12/2019				0.082 (J)				0.31	0.35
3/13/2019	0.043 (J)								
3/14/2019		0.042 (J)	0.092 (J)		<0.1	1.6	1.4		
8/27/2019				<0.1				0.32	
8/28/2019					<0.1				0.098 (J)
8/29/2019	0.079 (J)	0.054 (J)	0.095 (J)			0.52	0.78		
10/15/2019				<0.1					
10/16/2019								0.32	0.14 (J)
10/17/2019	<0.1				<0.1	0.46			
10/18/2019		<0.1	0.079 (J)				0.46		
3/2/2020				<0.1				0.33	
3/3/2020	<0.1	<0.1							<0.1
3/4/2020			0.075 (J)		<0.1	0.74	0.7		
8/11/2020									
8/12/2020				<0.1		0.22		0.13	0.056 (J)
8/13/2020			0.1		<0.1		0.47		
8/14/2020	<0.1	<0.1							
9/22/2020				<0.1	<0.1			0.12	
9/23/2020						0.11	0.32		<0.1
9/24/2020	<0.1	<0.1	0.075 (J)						
3/1/2021				<0.1					
3/2/2021								0.15	0.059 (J)
3/3/2021	<0.1	<0.1	0.063 (J)		<0.1	0.71	0.67		

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Constituent: Fluoride (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8
9/9/2021	<0.1		0.084 (J)						
9/10/2021		<0.1		<0.1		0.22	0.47	0.16	
9/13/2021					<0.1				0.069 (J)
1/20/2022	<0.1	<0.1	<0.1		<0.1				
1/21/2022						0.64			
1/24/2022				<0.1			0.59	0.19	
1/25/2022									<0.1
1/26/2022									
9/13/2022					<0.1	0.47	0.43		
9/14/2022								0.27	
9/15/2022	0.087 (J)								0.077 (J)
9/16/2022		0.068 (J)							
9/19/2022				0.061 (J)					
9/20/2022			0.11						
2/1/2023					<0.1				
2/3/2023				0.096 (J)		0.45	0.48		
2/6/2023		0.057 (J)	0.076 (J)						
2/7/2023	0.059 (J)							0.22	0.13

# Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-9
8/30/2016	0.78
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	1.1
12/8/2016	
3/28/2017	1.1
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	1.1
7/12/2017	
7/13/2017	
10/24/2017	1.7
10/25/2017	
10/26/2017	
11/15/2017	
2/27/2018	1.2
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	1.3
7/12/2018	
11/6/2018	1.1
11/7/2018	
11/8/2018	
3/12/2019	0.97
3/13/2019	
3/14/2019	
8/27/2019	0.68
8/28/2019	
8/29/2019	
10/15/2019	
10/16/2019	
10/17/2019	1.2
10/18/2019	
3/2/2020	
3/3/2020	1.4
3/4/2020	
8/11/2020	1.3
8/12/2020	
8/13/2020	
8/14/2020	
9/22/2020	0.99
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	0.93
3/3/2021	

# Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-9
9/9/2021	
9/10/2021	2
9/13/2021	
1/20/2022	
1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	1.2
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	0.8
9/20/2022	
2/1/2023	
2/3/2023	0.9
2/6/2023	
2/7/2023	

# Time Series

Constituent: Lead (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D
8/17/2020	8.8E-05 (J)								
9/25/2020	0.00021 (J)								
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	0.00018 (J)							<0.001	
4/15/2021									
9/10/2021			<0.001					<0.001	
9/13/2021	<0.001	<0.001			<0.001	<0.001			
9/14/2021				<0.001			<0.001		<0.001
1/20/2022								<0.001	
1/21/2022	<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						
6/6/2022									
9/8/2022	<0.001								
9/13/2022				<0.001					
9/14/2022						<0.001			<0.001
9/15/2022			<0.001				<0.001		
9/16/2022		<0.001			<0.001				
9/19/2022									
9/20/2022								<0.001	
2/2/2023	<0.001		<0.001						
2/3/2023		<0.001		<0.001					
2/6/2023						<0.001		<0.001	
2/7/2023					<0.001		<0.001		<0.001

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Constituent: Lead (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-122D	B-56
8/17/2020			0.00022 (J)
9/25/2020			
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			
4/15/2021	0.00019 (J)		
9/10/2021			
9/13/2021			<0.001
9/14/2021	<0.001		
1/20/2022	<0.001		
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022			<0.001
6/6/2022		<0.001	
9/8/2022			
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022			<0.001
9/19/2022	<0.001		
9/20/2022			
2/2/2023			
2/3/2023	<0.001		
2/6/2023		<0.001	
2/7/2023			<0.001

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Constituent: Lead (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93
3/28/2017									
5/11/2017									
6/15/2017									
7/12/2017									
10/24/2017									
3/8/2018									
7/12/2018									
11/7/2018									
1/28/2019		<0.001							
1/30/2019	<0.001		<0.001						
8/28/2019									
9/11/2019	<0.001	4.7E-05 (J)							
9/12/2019			<0.001						
9/18/2019				0.00032 (J)					
9/23/2019					0.00016 (J)				
10/16/2019									
10/21/2019	<0.001		<0.001		<0.001	0.00012 (J)			
10/22/2019		7.3E-05 (J)							
10/24/2019				<0.001					
3/9/2020									
8/13/2020	<0.001			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)
9/22/2020									
9/24/2020	<0.001			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
3/12/2021	<0.001								
9/9/2021	<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
9/16/2021						<0.001			
1/20/2022	<0.001	<0.001		<0.001					
1/21/2022						<0.001			
1/25/2022			<0.001		<0.001				
1/26/2022								<0.001	<0.001
1/27/2022							0.0022		
1/28/2022									
9/8/2022	<0.001								
9/12/2022								<0.001	<0.001
9/13/2022				<0.001		<0.001			
9/14/2022		<0.001							
9/16/2022			<0.001		<0.001		<0.001		
1/31/2023								<0.001	<0.001
2/1/2023									
2/2/2023	<0.001	<0.001							
2/3/2023						<0.001			



# Time Series

Constituent: Lead (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93
2/6/2023				<0.001					
2/7/2023			<0.001		<0.001		<0.001		

# Time Series

Constituent: Lead (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-97	B-98	DGWA-53 (bg)
3/28/2017			<0.001
5/11/2017			<0.001
6/15/2017			<0.001
7/12/2017			<0.001
10/24/2017			<0.001
3/8/2018			<0.001
7/12/2018			<0.001
11/7/2018			<0.001
1/28/2019			
1/30/2019			
8/28/2019			<0.001
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/16/2019			<0.001
10/21/2019			
10/22/2019			
10/24/2019			
3/9/2020			<0.001
8/13/2020			<0.001
8/14/2020			
8/17/2020			
8/19/2020			
9/22/2020			<0.001
9/24/2020			
9/25/2020			
9/28/2020			
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021			<0.001
9/9/2021			<0.001
9/13/2021			
9/14/2021			
9/15/2021	<0.001	<0.001	
9/16/2021			
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	<0.001	<0.001	
1/27/2022			
1/28/2022			<0.001
9/8/2022			<0.001
9/12/2022			
9/13/2022	<0.001	<0.001	
9/14/2022			
9/16/2022			
1/31/2023		<0.001	
2/1/2023	<0.001		<0.001
2/2/2023			
2/3/2023			

# Time Series

Constituent: Lead (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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B-97

B-98

DGWA-53 (bg)

2/6/2023

2/7/2023

# Time Series

Constituent: Lead (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17
8/31/2016			<0.005	<0.001			<0.001		
9/1/2016					<0.001				
9/2/2016									
9/6/2016						<0.001		<0.001	
9/7/2016									<0.001
12/6/2016			<0.005	<0.001			<0.001		
12/7/2016					<0.001	<0.001		0.0002 (J)	
12/8/2016									<0.001
3/28/2017	9E-05 (J)	<0.001							
3/29/2017			<0.005	<0.001	<0.001		<0.001		
3/30/2017						0.0002 (J)		0.0001 (J)	0.0001 (J)
5/11/2017									
5/12/2017		8E-05 (J)							
5/15/2017	0.0001 (J)								
6/15/2017	0.0002 (J)								
6/16/2017		<0.001							
7/11/2017	<0.001	<0.001							
7/12/2017			<0.005	<0.001	<0.001	<0.001	<0.001	0.0001 (J)	<0.001
8/8/2017	7E-05 (J)								
10/24/2017	<0.001	<0.001	<0.005	<0.001					
10/25/2017					<0.001		<0.001	<0.001	<0.001
11/15/2017						<0.001			
2/27/2018	<0.001	<0.001	<0.005	<0.001	<0.001		<0.001		
2/28/2018						<0.001		<0.001	<0.001
7/11/2018					<0.001		<0.001	<0.001	<0.001
11/6/2018	<0.001	<0.001	<0.005	<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		9E-05 (J)
8/28/2019						<0.001		5.9E-05 (J)	
8/29/2019					<0.001				
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		
10/17/2019								<0.001	
10/18/2019									7.4E-05 (J)
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									0.00013 (J)
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								0.0012 (J)	
8/14/2020									0.00017 (J)
9/22/2020	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)						7.9E-05 (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				0.00015 (J)
3/4/2021			9.2E-05 (J)						
9/8/2021		<0.001							
9/9/2021	<0.001			<0.001	<0.001	<0.001	<0.001	<0.001	
9/10/2021			<0.005						

# Time Series

Constituent: Lead (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17
9/13/2021									<0.001
1/18/2022	<0.001	<0.001							
1/20/2022									
1/21/2022									
1/24/2022								<0.001	<0.001
1/25/2022				<0.001	<0.001	<0.001	<0.001		
1/26/2022			<0.005						
9/7/2022	<0.001	<0.001							
9/13/2022							<0.001	<0.001	
9/14/2022									<0.001
9/15/2022			<0.005	<0.001	<0.001	<0.001			
9/20/2022									
1/31/2023	<0.001	<0.001							
2/1/2023						<0.001	<0.001		
2/2/2023			<0.005					<0.001	
2/6/2023				<0.001	<0.001				<0.001
2/7/2023									

# Time Series

Constituent: Lead (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

Date	DGWC-19	DGWC-2	DGWC-20
8/31/2016			
9/1/2016	<0.001		
9/2/2016			<0.005
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016	<0.001		<0.005
12/8/2016			
3/28/2017			
3/29/2017	<0.001		<0.005
3/30/2017		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		<0.005
8/8/2017			
10/24/2017		<0.001	
10/25/2017	<0.001		<0.005
11/15/2017			
2/27/2018		<0.001	
2/28/2018	<0.001		<0.005
7/11/2018	<0.001	<0.001	<0.005
11/6/2018		<0.001	
11/7/2018	<0.001		<0.005
8/27/2019		6E-05 (J)	
8/28/2019	0.00026 (J)		
8/29/2019			0.00015 (J)
9/17/2019			
10/15/2019			
10/16/2019	<0.001		
10/17/2019		8.6E-05 (J)	9.7E-05 (J)
10/18/2019			
3/2/2020			
3/3/2020	7E-05 (J)	<0.001	
3/4/2020			0.00068 (J)
8/11/2020	5.3E-05 (J)	6.4E-05 (J)	
8/12/2020			
8/13/2020			0.00044 (J)
8/14/2020			
9/22/2020	0.00016 (J)		0.00013 (J)
9/23/2020		9.4E-05 (J)	
9/24/2020			
3/1/2021			
3/2/2021	4.5E-05 (J)	0.00014 (J)	0.00047 (J)
3/3/2021			
3/4/2021			
9/8/2021			
9/9/2021	<0.001	<0.001	
9/10/2021			<0.005

# Time Series

Constituent: Lead (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-19	DGWC-2	DGWC-20
9/13/2021			
1/18/2022			
1/20/2022		<0.001	
1/21/2022			<0.005
1/24/2022			
1/25/2022	<0.001		
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022	<0.001		
9/15/2022			<0.005
9/20/2022		<0.001	
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	<0.001	<0.001	
2/7/2023			<0.005

# Time Series

Constituent: Lead (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-21	DGWC-22	DGWC-23	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)		
9/2/2016	0.0002 (J)	<0.001							
9/7/2016					0.0002 (J)				
12/6/2016								0.0004 (J)	<0.001
12/8/2016	<0.001	<0.001			0.0002 (J)	<0.001	0.0019 (J)		
3/28/2017				0.0002 (J)				<0.001	
3/29/2017		<0.001							0.0001 (J)
3/30/2017	0.0004 (J)		<0.001				0.0035 (J)		
3/31/2017					0.0004 (J)	0.0009 (J)			
5/12/2017			<0.001	<0.001					
6/15/2017			<0.001	<0.001					
7/11/2017				<0.001				<0.001	<0.001
7/12/2017	0.0001 (J)		<0.001						
7/13/2017		<0.001			0.0004 (J)	0.0007 (J)	0.002 (J)		
10/24/2017				<0.001					<0.001
10/25/2017	<0.001	<0.001			0.0002 (J)			0.0024 (J)	
10/26/2017			<0.001			0.0009 (J)	0.0022 (J)		
2/27/2018				<0.001				<0.001	<0.001
2/28/2018	<0.001	<0.001			<0.001				
3/1/2018			<0.001			<0.001			
3/2/2018							<0.001		
7/11/2018	<0.001				0.00052 (J)				
7/12/2018		<0.001	<0.001			0.001 (J)	0.0014 (J)		
11/6/2018				<0.001				<0.001	<0.001
11/7/2018	<0.001	<0.001			<0.005 (J)	<0.005 (J)	<0.005 (J)		
11/8/2018			<0.001						
8/27/2019				4.9E-05 (J)				5.1E-05 (J)	
8/28/2019					0.00036 (J)				8.2E-05 (J)
8/29/2019	0.00023 (J)	<0.001	6.6E-05 (J)			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	4.6E-05 (J)				0.00026 (J)	0.0011 (J)			
10/18/2019		<0.001	<0.001				0.00095 (J)		
3/2/2020				<0.001				5.1E-05 (J)	
3/3/2020	0.00015 (J)	<0.001							0.00023 (J)
3/4/2020			<0.001		0.0001 (J)	0.00088 (J)	0.0012 (J)		
8/11/2020									
8/12/2020				<0.001		0.0004 (J)		6.3E-05 (J)	0.0007 (J)
8/13/2020			<0.001		0.0016 (J)		0.00092 (J)		
8/14/2020	<0.001	<0.001							
9/22/2020				<0.001	0.00074 (J)			4.8E-05 (J)	
9/23/2020						0.00053 (J)	0.001 (J)		0.00011 (J)
9/24/2020	0.00014 (J)	<0.001	<0.001						
3/1/2021				0.00012 (J)					
3/2/2021								8E-05 (J)	0.00027 (J)
3/3/2021	<0.001	<0.001	<0.001		0.00024 (J)	0.0007 (J)	0.0011		
9/9/2021	<0.001		<0.001						
9/10/2021		<0.001		<0.001		<0.001	0.00099 (J)	<0.001	
9/13/2021					<0.001				<0.001
1/20/2022	<0.001	<0.001	<0.001		<0.001				



# Time Series

Constituent: Lead (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8
1/21/2022						<0.001			
1/24/2022				<0.001			0.0011	<0.001	
1/25/2022									<0.001
1/26/2022									
9/13/2022					<0.001	<0.001	0.00093 (J)		
9/14/2022								<0.001	
9/15/2022	<0.001								<0.001
9/16/2022		<0.001							
9/19/2022				<0.001					
9/20/2022			<0.001						
2/1/2023					<0.001				
2/3/2023				<0.001		<0.001	<0.001		
2/6/2023		<0.001	<0.001						
2/7/2023	<0.001							<0.001	<0.001

# Time Series

Constituent: Lead (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-9
8/30/2016	<0.005
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	<0.005
12/8/2016	
3/28/2017	<0.005
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	<0.005
7/12/2017	
7/13/2017	
10/24/2017	<0.005
10/25/2017	
10/26/2017	
2/27/2018	<0.005
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	<0.005
7/12/2018	
11/6/2018	<0.005
11/7/2018	
11/8/2018	
8/27/2019	<0.005
8/28/2019	
8/29/2019	
10/15/2019	
10/16/2019	
10/17/2019	<0.005
10/18/2019	
3/2/2020	
3/3/2020	0.00017 (J)
3/4/2020	
8/11/2020	<0.005
8/12/2020	
8/13/2020	
8/14/2020	
9/22/2020	0.00015 (J)
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	0.00028 (J)
3/3/2021	
9/9/2021	
9/10/2021	<0.005
9/13/2021	
1/20/2022	

# Time Series

Constituent: Lead (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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DGWC-9

1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	<0.005
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	<0.005
9/20/2022	
2/1/2023	
2/3/2023	<0.005
2/6/2023	
2/7/2023	

# Time Series

Constituent: Lithium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D
8/17/2020	0.0013 (J)								
9/25/2020	0.0027 (J)								
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	0.0024 (J)							0.014 (J)	
4/15/2021									
9/10/2021			0.012 (J)					0.013 (J)	
9/13/2021	0.0022 (J)	0.011 (J)			0.0056 (J)	0.014 (J)			
9/14/2021				0.036			0.015 (J)		0.029 (J)
1/20/2022								0.014 (J)	
1/21/2022	0.0021 (J)								
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)						
6/6/2022									
9/8/2022	0.0023 (J)								
9/13/2022				0.04					
9/14/2022						0.015 (J)			0.02 (J)
9/15/2022			0.013 (J)				0.016 (J)		
9/16/2022		0.011 (J)			0.0054 (J)				
9/19/2022									
9/20/2022								0.013 (J)	
2/2/2023	<0.03		0.011 (J)						
2/3/2023		0.008 (J)		0.037					
2/6/2023						0.014 (J)		0.012 (J)	
2/7/2023					0.0053 (J)		0.014 (J)		0.018 (J)

# Time Series

Constituent: Lithium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-122D	B-56
8/17/2020			0.0056 (J)
9/25/2020			
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			
4/15/2021	0.088		
9/10/2021			
9/13/2021			0.0055 (J)
9/14/2021	0.077		
1/20/2022	0.079		
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022			0.0061 (J)
6/6/2022		0.013 (J)	
9/8/2022			
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022			0.0057 (J)
9/19/2022	0.076		
9/20/2022			
2/2/2023			
2/3/2023	0.068		
2/6/2023		0.014 (J)	
2/7/2023			0.0054 (J)

# Time Series

Constituent: Lithium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93
3/28/2017									
5/11/2017									
6/15/2017									
7/12/2017									
10/24/2017									
3/8/2018									
7/12/2018									
11/7/2018									
1/28/2019		<0.05							
1/30/2019	<0.05		<0.03						
8/28/2019									
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)				
10/16/2019									
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)					
3/9/2020									
8/13/2020	0.0087 (J)			0.0018 (J)					
8/14/2020						0.0045 (J)			
8/17/2020					0.0016 (J)		0.006 (J)		
8/19/2020									0.011 (J)
9/22/2020									
9/24/2020	0.0084 (J)			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	0.0087 (J)	0.0066 (J)							
9/9/2021	0.0094 (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)
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)				
1/26/2022								0.015 (J)	0.013 (J)
1/27/2022							0.0066 (J)		
1/28/2022									
9/8/2022	0.0085 (J)								
9/12/2022								0.015 (J)	0.013 (J)
9/13/2022				0.0021 (JD)		0.0027 (J)			
9/14/2022		0.0072 (JD)							
9/16/2022			<0.03		0.00078 (J)		0.0021 (J)		
1/31/2023								0.014 (J)	0.011 (J)
2/1/2023									
2/2/2023	0.0082 (J)	0.0045 (J)							
2/3/2023						0.0025 (J)			

# Time Series

Constituent: Lithium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93
2/6/2023				<0.03					
2/7/2023			<0.03		0.00073 (J)		0.0071 (J)		

# Time Series

Constituent: Lithium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-97	B-98	DGWA-53 (bg)
3/28/2017			0.0108 (J)
5/11/2017			0.0087 (J)
6/15/2017			0.0088 (J)
7/12/2017			0.0075 (J)
10/24/2017			0.0103 (J)
3/8/2018			0.011 (J)
7/12/2018			0.0084 (J)
11/7/2018			<0.05
1/28/2019			
1/30/2019			
8/28/2019			0.0092 (J)
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/16/2019			0.0094 (J)
10/21/2019			
10/22/2019			
10/24/2019			
3/9/2020			0.0077 (J)
8/13/2020			0.0085 (J)
8/14/2020			
8/17/2020			
8/19/2020			
9/22/2020			0.0089 (J)
9/24/2020			
9/25/2020			
9/28/2020			
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021			0.0083 (J)
9/9/2021			0.0091 (J)
9/13/2021			
9/14/2021			
9/15/2021	0.0042 (J)	0.0012 (J)	
9/16/2021			
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	0.0047 (J)	0.0013 (J)	
1/27/2022			
1/28/2022			0.0091 (J)
9/8/2022			0.0083 (J)
9/12/2022			
9/13/2022	0.0052 (J)	0.0011 (J)	
9/14/2022			
9/16/2022			
1/31/2023		0.00089 (J)	
2/1/2023	0.0048 (J)		0.0088 (J)
2/2/2023			
2/3/2023			



# Time Series

Constituent: Lithium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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B-97

B-98

DGWA-53 (bg)

2/6/2023

2/7/2023

# Time Series

Constituent: Lithium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17
8/31/2016			0.0022 (J)	0.0022 (J)			0.0031 (J)		
9/1/2016					<0.03				
9/2/2016									
9/6/2016						0.0029 (J)		0.0064 (J)	
9/7/2016									<0.03
12/6/2016			<0.05	0.0027 (J)			0.0042 (J)		
12/7/2016					<0.03	0.003 (J)		0.0066 (J)	
12/8/2016									<0.03
3/28/2017	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)	<0.03
5/11/2017									
5/12/2017		0.0016 (J)							
5/15/2017	0.002 (J)								
6/15/2017	<0.03								
6/16/2017		0.0016 (J)							
7/11/2017	<0.03	<0.05							
7/12/2017			0.0019 (J)	0.0022 (J)	<0.03	0.0028 (J)	0.0036 (J)	0.006 (J)	<0.03
8/8/2017	<0.03								
10/24/2017	<0.03	<0.05	0.0022 (J)	0.0024 (J)					
10/25/2017					<0.03		0.0032 (J)	0.0061 (J)	<0.03
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						<0.05		0.0062 (J)	<0.03
7/11/2018					<0.03		0.0034 (J)	0.0058 (J)	<0.03
11/6/2018	<0.03	<0.05	<0.05	<0.05					
11/7/2018					<0.03	<0.05	<0.05	<0.05 (O)	<0.03
8/27/2019	<0.03	0.0014 (J)	0.0053 (J)	0.0023 (J)	0.0011 (J)		0.0038 (J)		0.00089 (J)
8/28/2019						0.0033 (J)		0.0063 (J)	
8/29/2019									
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						0.0029 (J)	0.0032 (J)		
10/17/2019								0.0064 (J)	
10/18/2019									0.00096 (J)
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									0.0011 (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								0.0089 (J)	
8/14/2020									0.0015 (J)
9/22/2020	<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)						0.00096 (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				0.0011 (J)
3/4/2021			0.0042 (J)						
9/8/2021		0.0013 (J)							
9/9/2021	<0.03			0.0029 (J)	<0.03	0.0036 (J)	0.0044 (J)	0.0057 (J)	
9/10/2021			0.0051 (J)						

# Time Series

Constituent: Lithium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17
9/13/2021									<0.03
1/18/2022	<0.03	0.0013 (J)							
1/20/2022									
1/21/2022									
1/24/2022								0.0051 (J)	<0.03
1/25/2022				0.0021 (J)	<0.03	0.0037 (J)	0.0043 (J)		
1/26/2022			0.0059 (J)						
9/7/2022	<0.03	0.0012 (J)							
9/13/2022							0.0043 (J)	0.0057 (J)	
9/14/2022									<0.03
9/15/2022			0.0053 (J)	0.0024 (J)	0.00088 (J)	0.004 (J)			
9/20/2022									
1/31/2023	<0.03	0.0014 (J)							
2/1/2023						0.0031 (J)	0.018 (J)		
2/2/2023			0.0049 (J)					0.005 (J)	
2/6/2023				0.0018 (J)	<0.03				<0.03
2/7/2023									

# Time Series

Constituent: Lithium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-2	DGWC-20
8/31/2016			
9/1/2016	0.0034 (J)		
9/2/2016			0.0021 (J)
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016	0.0034 (J)		0.005 (J)
12/8/2016			
3/28/2017			
3/29/2017	0.0031 (J)		0.0021 (J)
3/30/2017		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	0.0032 (J)		0.0019 (J)
8/8/2017			
10/24/2017		0.0995	
10/25/2017	0.0031 (J)		0.0022 (J)
11/15/2017			
2/27/2018		0.0875	
2/28/2018	0.0031 (J)		0.0019 (J)
7/11/2018	0.0034 (J)	0.033 (J)	0.0022 (J)
11/6/2018		<0.05	
11/7/2018	<0.05		<0.05
8/27/2019		0.032	
8/28/2019	0.0032 (J)		
8/29/2019			0.0093 (J)
9/17/2019			
10/15/2019			
10/16/2019	0.0026 (J)		
10/17/2019		0.029 (J)	0.0075 (J)
10/18/2019			
3/2/2020			
3/3/2020	0.0034 (J)	0.026 (J)	
3/4/2020			0.019 (J)
8/11/2020	0.0031 (J)	0.028 (J)	
8/12/2020			
8/13/2020			0.012 (J)
8/14/2020			
9/22/2020	0.0034 (J)		0.0026 (J)
9/23/2020		0.022 (J)	
9/24/2020			
3/1/2021			
3/2/2021	0.003 (J)	0.023 (J)	0.011 (J)
3/3/2021			
3/4/2021			
9/8/2021			
9/9/2021	0.0035 (J)	0.024 (J)	
9/10/2021			0.0023 (J)

# Time Series

Constituent: Lithium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-19	DGWC-2	DGWC-20
9/13/2021			
1/18/2022			
1/20/2022		0.024 (J)	
1/21/2022			0.012 (J)
1/24/2022			
1/25/2022	0.0031 (J)		
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022	0.0032 (J)		
9/15/2022			0.0096 (J)
9/20/2022		0.021 (J)	
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	0.0026 (J)	0.017 (J)	
2/7/2023			0.013 (J)

# Time Series

Constituent: Lithium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8
8/30/2016									0.005 (J)
8/31/2016								0.0026 (J)	
9/1/2016						0.0854	0.125		
9/2/2016	0.0057 (J)	0.0046 (J)							
9/7/2016					0.012 (J)				
12/6/2016								0.0046 (J)	0.0066 (J)
12/8/2016	0.0054 (J)	0.0047 (J)			0.0118 (J)	0.0667	0.122		
3/28/2017				0.0031 (J)				0.0028 (J)	
3/29/2017		0.0043 (J)							0.0059 (J)
3/30/2017	0.0065 (J)		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)	0.0045 (J)
7/12/2017	0.0057 (J)		0.0068 (J)						
7/13/2017		0.0044 (J)			0.0116 (J)	0.0743	0.143		
10/24/2017				0.0024 (J)					0.0072 (J)
10/25/2017	0.006 (J)	0.0042 (J)			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)	0.0075 (J)
2/28/2018	0.0061 (J)	0.0043 (J)			0.0122 (J)				
3/1/2018			0.0759			0.0772			
3/2/2018							0.129		
7/11/2018	0.0057 (J)				0.01 (J)				
7/12/2018		0.0036 (J)	0.0047 (J)			0.073	0.12		
11/6/2018				<0.05				<0.05	<0.05
11/7/2018	<0.05	<0.05			<0.05	0.082	0.12		
11/8/2018			<0.05						
8/27/2019				0.0033 (J)				0.008 (J)	
8/28/2019					0.01 (J)				0.0048 (J)
8/29/2019	0.0061 (J)	0.0035 (J)	0.0017 (J)			0.056	0.11		
10/15/2019				0.0029 (J)					
10/16/2019								0.006 (J)	0.0045 (J)
10/17/2019	0.0063 (J)				0.011 (J)	0.066			
10/18/2019		0.0041 (J)	0.0039 (J)				0.11		
3/2/2020				0.0035 (J)				0.0079 (J)	
3/3/2020	0.0065 (J)	0.0046 (J)							0.0052 (J)
3/4/2020			0.004 (J)		0.0091 (J)	0.063	0.12		
8/11/2020									
8/12/2020				0.0031 (J)		0.054		0.0067 (J)	0.0058 (J)
8/13/2020			0.0052 (J)		0.011 (J)		0.098		
8/14/2020	0.0058 (J)	0.0039 (J)							
9/22/2020				0.0026 (J)	0.0099 (J)			0.0065 (J)	
9/23/2020						0.046	0.1		0.0045 (J)
9/24/2020	0.0062 (J)	0.0037 (J)	0.0045 (J)						
3/1/2021				0.0035 (J)					
3/2/2021								0.0064 (J)	0.0046 (J)
3/3/2021	0.0054 (J)	0.0038 (J)	0.014 (J)		0.0079 (J)	0.049	0.096		
9/9/2021	0.006 (J)		0.0081 (J)						
9/10/2021		0.0039 (J)		0.0035 (J)		0.053	0.095	0.0071 (J)	
9/13/2021					0.015 (J)				0.0034 (J)
1/20/2022	0.0058 (J)	0.0032 (J)	0.0029 (J)		0.0069 (J)				

# Time Series

Constituent: Lithium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8
1/21/2022						0.055			
1/24/2022				0.0038 (J)			0.11	0.0068 (J)	
1/25/2022									0.0032 (J)
1/26/2022									
9/13/2022					0.0091 (J)	0.05	0.099		
9/14/2022								0.0081 (J)	
9/15/2022	0.0069 (J)								0.0039 (J)
9/16/2022		0.0033 (J)							
9/19/2022				0.0037 (J)					
9/20/2022			0.0051 (J)						
2/1/2023					0.0068 (J)				
2/3/2023				0.0036 (J)		0.048	0.089		
2/6/2023		0.0034 (J)	0.0022 (J)						
2/7/2023	0.0056 (J)							0.0072 (J)	0.0036 (J)

# Time Series

Constituent: Lithium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-9
8/30/2016	0.0212 (J)
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	0.0242 (J)
12/8/2016	
3/28/2017	0.0249 (J)
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	0.022 (J)
7/12/2017	
7/13/2017	
10/24/2017	0.0281 (J)
10/25/2017	
10/26/2017	
2/27/2018	0.031 (J)
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	0.028 (J)
7/12/2018	
11/6/2018	<0.05
11/7/2018	
11/8/2018	
8/27/2019	0.031
8/28/2019	
8/29/2019	
10/15/2019	
10/16/2019	
10/17/2019	0.029 (J)
10/18/2019	
3/2/2020	
3/3/2020	0.028 (J)
3/4/2020	
8/11/2020	0.032
8/12/2020	
8/13/2020	
8/14/2020	
9/22/2020	0.025 (J)
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	0.028 (J)
3/3/2021	
9/9/2021	
9/10/2021	0.027 (J)
9/13/2021	
1/20/2022	



# Time Series

Constituent: Lithium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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DGWC-9

1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	0.029 (J)
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	0.023 (J)
9/20/2022	
2/1/2023	
2/3/2023	0.025 (J)
2/6/2023	
2/7/2023	

# Time Series

Constituent: Mercury (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D
8/17/2020	0.00011 (J)								
9/25/2020	<0.0002								
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	
4/15/2021									
9/10/2021			<0.0002					<0.0002	
9/13/2021	<0.0002	<0.0002			<0.0002	<0.0002			
9/14/2021				<0.0002			<0.0002		<0.0002
1/20/2022								<0.0002	
1/21/2022	<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						
6/6/2022									
9/8/2022	<0.0002								
9/13/2022				<0.0002					
9/14/2022						<0.0002			<0.0002
9/15/2022			<0.0002				<0.0002		
9/16/2022		<0.0002			<0.0002				
9/19/2022									
9/20/2022								<0.0002	
2/2/2023	<0.0002		<0.0002						
2/3/2023		0.00029		<0.0002					
2/6/2023						<0.0002		<0.0002	
2/7/2023					<0.0002		<0.0002		<0.0002

# Time Series

Constituent: Mercury (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-122D	B-56
8/17/2020			0.00016 (J)
9/25/2020			
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			
4/15/2021	<0.0002		
9/10/2021			
9/13/2021			<0.0002
9/14/2021	<0.0002		
1/20/2022	<0.0002		
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022			<0.0002
6/6/2022		<0.0002	
9/8/2022			
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022			<0.0002
9/19/2022	<0.0002		
9/20/2022			
2/2/2023			
2/3/2023	<0.0002		
2/6/2023		<0.0002	
2/7/2023			0.00034

# Time Series

Constituent: Mercury (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93
3/28/2017									
5/11/2017									
6/15/2017									
7/12/2017									
10/24/2017									
3/8/2018									
7/12/2018									
11/7/2018									
1/28/2019		<0.0002							
1/30/2019	<0.0002		<0.0002						
8/28/2019									
9/11/2019	<0.0002	<0.0002							
9/12/2019			<0.0002						
9/18/2019				<0.0002					
9/23/2019					<0.0002				
10/16/2019									
10/21/2019	<0.0002		<0.0002		<0.0002	<0.0002			
10/22/2019		<0.0002							
10/24/2019				<0.0002					
3/9/2020									
8/13/2020	<0.0002			<0.0002					
8/14/2020						<0.0002			
8/17/2020					0.00011 (J)		0.00011 (J)		
8/19/2020									0.00026
9/22/2020									
9/24/2020	<0.0002			<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)
3/12/2021	<0.0002								
9/9/2021	<0.0002								
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)
9/16/2021						<0.0002			
1/20/2022	<0.0002	<0.0002		<0.0002					
1/21/2022						<0.0002			
1/25/2022			<0.0002		<0.0002				
1/26/2022								<0.0002	<0.0002
1/27/2022							<0.0002		
1/28/2022									
9/8/2022	<0.0002								
9/12/2022								0.00015 (J)	0.00016 (J)
9/13/2022				<0.0002		<0.0002			
9/14/2022		<0.0002							
9/16/2022			<0.0002		<0.0002		<0.0002		
1/31/2023								0.00017 (J)	<0.0002
2/1/2023									
2/2/2023	<0.0002	<0.0002							
2/3/2023						<0.0002			

# Time Series

Constituent: Mercury (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93
2/6/2023				<0.0002					
2/7/2023			0.00029		<0.0002		<0.0002		

# Time Series

Constituent: Mercury (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-97	B-98	DGWA-53 (bg)
3/28/2017			<0.0002
5/11/2017			<0.0002
6/15/2017			8E-05 (J)
7/12/2017			<0.0002
10/24/2017			<0.0002
3/8/2018			<0.0002
7/12/2018			<0.0002
11/7/2018			<0.0002
1/28/2019			
1/30/2019			
8/28/2019			<0.0002
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/16/2019			<0.0002
10/21/2019			
10/22/2019			
10/24/2019			
3/9/2020			<0.0002
8/13/2020			<0.0002
8/14/2020			
8/17/2020			
8/19/2020			
9/22/2020			<0.0002
9/24/2020			
9/25/2020			
9/28/2020			
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021			<0.0002
9/9/2021			<0.0002
9/13/2021			
9/14/2021			
9/15/2021	<0.0002	<0.0002	
9/16/2021			
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	<0.0002	<0.0002	
1/27/2022			
1/28/2022			<0.0002
9/8/2022			<0.0002
9/12/2022			
9/13/2022	<0.0002	<0.0002	
9/14/2022			
9/16/2022			
1/31/2023		<0.0002	
2/1/2023	<0.0002		<0.0002
2/2/2023			
2/3/2023			

# Time Series

Constituent: Mercury (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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B-97

B-98

DGWA-53 (bg)

2/6/2023

2/7/2023

# Time Series

Constituent: Mercury (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17
8/31/2016			7E-05 (J)	5E-05 (J)			5E-05 (J)		
9/1/2016					9E-05 (J)				
9/2/2016									
9/6/2016						<0.0002		<0.0002	
9/7/2016									6E-05 (J)
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									<0.0002
3/28/2017	<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)	0.00012 (J)
5/11/2017									
5/12/2017		6E-05 (J)							
5/15/2017	<0.0002								
6/15/2017	7E-05 (J)								
6/16/2017		7E-05 (J)							
7/11/2017	<0.0002	<0.0002							
7/12/2017			<0.0002	<0.0002	8E-05 (J)	<0.0002	<0.0002	<0.0002	5E-05 (J)
8/8/2017	<0.0002								
10/24/2017	<0.0002	<0.0002	<0.0002	<0.0002					
10/25/2017					6E-05 (J)		<0.0002	<0.0002	5E-05 (J)
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	<0.0002
7/11/2018					3.6E-05 (J)		<0.0002	<0.0002	<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	<0.0002	<0.0002	0.00016 (J)
8/28/2019						<0.0002		<0.0002	
8/29/2019									
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		
10/17/2019								<0.0002	
10/18/2019									<0.0002
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									<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	
8/14/2020									9.8E-05 (J)
9/22/2020	<0.0002	<0.0002		<0.0002	<0.0002		<0.0002		
9/23/2020						<0.0002		<0.0002	
9/24/2020			8.1E-05 (J)						8.2E-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				<0.0002
3/4/2021			<0.0002						
9/8/2021		9.6E-05 (J)							
9/9/2021	<0.0002			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
9/10/2021			<0.0002						



# Time Series

Constituent: Mercury (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17
9/13/2021									8.6E-05 (J)
1/18/2022	<0.0002	0.00015 (J)							
1/20/2022									
1/21/2022									
1/24/2022								<0.0002	<0.0002
1/25/2022				<0.0002	<0.0002	<0.0002	<0.0002		
1/26/2022			<0.0002						
9/7/2022	<0.0002	0.00013 (J)							
9/13/2022							<0.0002	<0.0002	
9/14/2022									<0.0002
9/15/2022			<0.0002	<0.0002	<0.0002	<0.0002			
9/20/2022									
1/31/2023	<0.0002	<0.0002							
2/1/2023						<0.0002	<0.0002		
2/2/2023			<0.0002					<0.0002	
2/6/2023				<0.0002	<0.0002				0.00014 (J)
2/7/2023									

# Time Series

Constituent: Mercury (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-2	DGWC-20
8/31/2016			
9/1/2016	4E-05 (J)		
9/2/2016			<0.0002
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016	5E-05 (J)		8E-05 (J)
12/8/2016			
3/28/2017			
3/29/2017	9E-05 (J)		8E-05 (J)
3/30/2017		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	<0.0002		<0.0002
8/8/2017			
10/24/2017		<0.0002	
10/25/2017	<0.0002		<0.0002
11/15/2017			
2/27/2018		<0.0002	
2/28/2018	<0.0002		<0.0002
7/11/2018	<0.0002	<0.0002	<0.0002
11/6/2018		0.00064	
11/7/2018	<0.0002		<0.0002
8/27/2019		<0.0002	
8/28/2019	<0.0002		
8/29/2019			<0.0002
9/17/2019			
10/15/2019			
10/16/2019	<0.0002		
10/17/2019		<0.0002	<0.0002
10/18/2019			
3/2/2020			
3/3/2020	<0.0002	<0.0002	
3/4/2020			<0.0002
8/11/2020	<0.0002	<0.0002	
8/12/2020			
8/13/2020			<0.0002
8/14/2020			
9/22/2020	<0.0002		<0.0002
9/23/2020		<0.0002	
9/24/2020			
3/1/2021			
3/2/2021	<0.0002	<0.0002	9E-05 (J)
3/3/2021			
3/4/2021			
9/8/2021			
9/9/2021	<0.0002	<0.0002	
9/10/2021			<0.0002

# Time Series

Constituent: Mercury (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-2	DGWC-20
9/13/2021			
1/18/2022			
1/20/2022		<0.0002	
1/21/2022			<0.0002
1/24/2022			
1/25/2022	<0.0002		
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022	<0.0002		
9/15/2022			<0.0002
9/20/2022		<0.0002	
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	0.00013 (J)	<0.0002	
2/7/2023			<0.0002

# Time Series

Constituent: Mercury (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8
8/30/2016									9E-05 (J)
8/31/2016								0.00015 (J)	
9/1/2016						<0.0002	<0.0002		
9/2/2016	6E-05 (J)	5E-05 (J)							
9/7/2016					<0.0002				
12/6/2016								0.00012 (J)	0.0001 (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		0.0001 (J)							0.00012 (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)	6E-05 (J)
7/12/2017	6E-05 (J)		0.00012 (J)						
7/13/2017		<0.0002			<0.0002	<0.0002	<0.0002		
10/24/2017				<0.0002					<0.0002
10/25/2017	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)	4.2E-05 (J)
2/28/2018	<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				
7/12/2018		5.5E-05 (J)	0.00016 (J)			<0.0002	<0.0002		
11/6/2018				0.00059				0.00055	<0.0002
11/7/2018	<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				<0.0002
8/29/2019	<0.0002	<0.0002	<0.0002			<0.0002	<0.0002		
10/15/2019				<0.0002					
10/16/2019							<0.0002	<0.0002	
10/17/2019	<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							<0.0002
3/4/2020			0.00026		<0.0002	<0.0002	<0.0002		
8/11/2020									
8/12/2020				<0.0002		<0.0002		0.00017 (J)	7.9E-05 (J)
8/13/2020			0.00014 (J)		<0.0002		<0.0002		
8/14/2020	<0.0002	<0.0002							
9/22/2020				<0.0002	<0.0002			0.0002 (J)	
9/23/2020						<0.0002	<0.0002		<0.0002
9/24/2020	0.00012 (J)	<0.0002	0.0002 (J)						
3/1/2021				<0.0002					
3/2/2021								9.4E-05 (J)	<0.0002
3/3/2021	<0.0002	<0.0002	0.00033		<0.0002	<0.0002	<0.0002		
9/9/2021	<0.0002		0.00011 (J)						
9/10/2021		0.00011 (J)		0.00013 (J)		<0.0002	<0.0002	0.0003	
9/13/2021					<0.0002				<0.0002
1/20/2022	<0.0002	<0.0002	<0.0002		<0.0002				

# Time Series

Constituent: Mercury (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8
1/21/2022						<0.0002			
1/24/2022				0.00022			<0.0002	0.00028	
1/25/2022									<0.0002
1/26/2022									
9/13/2022					<0.0002	<0.0002	<0.0002		
9/14/2022								0.00022	
9/15/2022	<0.0002								<0.0002
9/16/2022		<0.0002							
9/19/2022				<0.0002					
9/20/2022			<0.0002						
2/1/2023					<0.0002				
2/3/2023				<0.0002		<0.0002	<0.0002		
2/6/2023		0.00014 (J)	<0.0002						
2/7/2023	<0.0002							0.00026	<0.0002

# Time Series

Constituent: Mercury (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Date	Value
	DGWC-9
8/30/2016	<0.0002
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	5E-05 (J)
12/8/2016	
3/28/2017	<0.0002
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	<0.0002
7/12/2017	
7/13/2017	
10/24/2017	<0.0002
10/25/2017	
10/26/2017	
2/27/2018	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
11/7/2018	
11/8/2018	
8/27/2019	0.00021 (J)
8/28/2019	
8/29/2019	
10/15/2019	
10/16/2019	
10/17/2019	0.00042 (J)
10/18/2019	
3/2/2020	
3/3/2020	<0.0002
3/4/2020	
8/11/2020	0.00026
8/12/2020	
8/13/2020	
8/14/2020	
9/22/2020	0.00013 (J)
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	0.00017 (J)
3/3/2021	
9/9/2021	
9/10/2021	0.00014 (J)
9/13/2021	
1/20/2022	

# Time Series

Constituent: Mercury (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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DGWC-9

1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	0.00014 (J)
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	0.0002
9/20/2022	
2/1/2023	
2/3/2023	0.00017 (J)
2/6/2023	
2/7/2023	

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D
8/17/2020	<0.01								
9/25/2020	<0.01								
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	<0.01							0.0014 (J)	
4/15/2021									
9/10/2021			<0.01					0.0011 (J)	
9/13/2021	<0.01	<0.01			<0.01	<0.01			
9/14/2021				<0.01			<0.01		0.013
1/20/2022								0.0012 (J)	
1/21/2022	<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						
6/6/2022									
9/8/2022	<0.01								
9/13/2022				<0.01					
9/14/2022						<0.01			0.0069 (J)
9/15/2022			0.0015 (J)				<0.01		
9/16/2022		<0.01			<0.01				
9/19/2022									
9/20/2022								0.0014 (J)	
2/2/2023	0.19		<0.01						
2/3/2023		<0.01		<0.01					
2/6/2023						<0.01		0.0014 (J)	
2/7/2023					<0.01		<0.01		0.0077 (J)



# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-122D	B-56
8/17/2020			<0.01
9/25/2020			
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			
4/15/2021	0.00089 (J)		
9/10/2021			
9/13/2021			<0.01
9/14/2021	<0.01		
1/20/2022	<0.01		
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022			<0.01
6/6/2022		<0.01	
9/8/2022			
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022			<0.01
9/19/2022	<0.01		
9/20/2022			
2/2/2023			
2/3/2023	<0.01		
2/6/2023		0.0011 (J)	
2/7/2023			<0.01

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93
3/28/2017									
5/11/2017									
6/15/2017									
7/12/2017									
10/24/2017									
3/8/2018									
7/12/2018									
11/7/2018									
1/28/2019		<0.01							
1/30/2019	<0.01		<0.01						
8/28/2019									
9/11/2019	<0.01	<0.01							
9/12/2019			0.0018 (J)						
9/18/2019				<0.01					
9/23/2019					<0.01				
10/16/2019									
10/21/2019	<0.01		0.0015 (J)		<0.01	<0.01			
10/22/2019		<0.01							
10/24/2019				<0.01					
3/9/2020									
8/13/2020	<0.01			<0.01					
8/14/2020									
8/17/2020					<0.01		0.0012 (J)		
8/19/2020									<0.01
9/22/2020									
9/24/2020	<0.01			<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
3/12/2021	<0.01								
9/9/2021	<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
9/16/2021						<0.01			
1/20/2022	<0.01	<0.01		<0.01					
1/21/2022						<0.01			
1/25/2022			<0.01		<0.01				
1/26/2022								<0.01	<0.01
1/27/2022							<0.01		
1/28/2022									
9/8/2022	<0.01								
9/12/2022								<0.01	<0.01
9/13/2022				<0.01		<0.01			
9/14/2022		<0.01							
9/16/2022			<0.01		<0.01		<0.01		
1/31/2023								<0.01	<0.01
2/1/2023									
2/2/2023	<0.01	<0.01							
2/3/2023						<0.01			

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93
2/6/2023				<0.01					
2/7/2023			<0.01		<0.01		<0.01		

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-97	B-98	DGWA-53 (bg)
3/28/2017			0.0242
5/11/2017			0.0375
6/15/2017			0.0409
7/12/2017			0.0321
10/24/2017			0.0227
3/8/2018			0.035
7/12/2018			0.034
11/7/2018			0.029
1/28/2019			
1/30/2019			
8/28/2019			0.031
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/16/2019			0.037
10/21/2019			
10/22/2019			
10/24/2019			
3/9/2020			0.026
8/13/2020			0.012
8/14/2020			
8/17/2020			
8/19/2020			
9/22/2020			0.039
9/24/2020			
9/25/2020			
9/28/2020			
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021			0.018
9/9/2021			0.025
9/13/2021			
9/14/2021			
9/15/2021	<0.01	<0.01	
9/16/2021			
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	<0.01	0.0015 (J)	
1/27/2022			
1/28/2022			0.026
9/8/2022			0.027
9/12/2022			
9/13/2022	<0.01	0.00084 (J)	
9/14/2022			
9/16/2022			
1/31/2023		0.0014 (J)	
2/1/2023	<0.01		0.023
2/2/2023			
2/3/2023			

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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B-97

B-98

DGWA-53 (bg)

2/6/2023

2/7/2023

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17
8/31/2016			<0.01	<0.01			<0.01		
9/1/2016					<0.01				
9/2/2016									
9/6/2016						0.0371		<0.01	
9/7/2016									<0.01
12/6/2016			<0.01	<0.01			<0.01		
12/7/2016					<0.01	0.0273		<0.01	
12/8/2016									<0.01
3/28/2017	<0.01	0.0009 (J)							
3/29/2017			<0.01	<0.01	<0.01		<0.01		
3/30/2017						0.03		<0.01	<0.01
5/11/2017									
5/12/2017		<0.01							
5/15/2017	<0.01								
6/15/2017	<0.01								
6/16/2017		<0.01							
7/11/2017	<0.01	<0.01							
7/12/2017			<0.01	<0.01	<0.01	0.0323	<0.01	<0.01	<0.01
8/8/2017	<0.01								
10/24/2017	<0.01	<0.01	<0.01	<0.01					
10/25/2017					<0.01		<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	<0.01
7/11/2018					<0.01		<0.01	<0.01	<0.01
11/6/2018	<0.01	<0.01	<0.01	<0.01					
11/7/2018					<0.01	0.018	<0.01	<0.01	<0.01
8/27/2019	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01		<0.01
8/28/2019						0.015		<0.01	
8/29/2019									
9/17/2019					<0.01				
10/15/2019	<0.01	<0.01	<0.01	<0.01	<0.01				
10/16/2019						0.014	<0.01		
10/17/2019								<0.01	
10/18/2019									<0.01
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									<0.01
8/11/2020	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01		
8/12/2020						0.012			
8/13/2020								<0.01	
8/14/2020									<0.01
9/22/2020	<0.01	<0.01		<0.01	<0.01		<0.01		
9/23/2020						0.012		<0.01	
9/24/2020			<0.01						<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				<0.01
3/4/2021			<0.01						
9/8/2021		<0.01							
9/9/2021	<0.01			<0.01	<0.01	0.011	<0.01	<0.01	
9/10/2021			<0.01						

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17
9/13/2021									<0.01
1/18/2022	<0.01	<0.01							
1/20/2022									
1/21/2022									
1/24/2022								<0.01	<0.01
1/25/2022				<0.01	<0.01	0.0093 (J)	<0.01		
1/26/2022			<0.01						
9/7/2022	<0.01	<0.01							
9/13/2022							<0.01	<0.01	
9/14/2022									<0.01
9/15/2022			<0.01	<0.01	<0.01	0.0094 (J)			
9/20/2022									
1/31/2023	<0.01	<0.01							
2/1/2023						0.0085 (J)	<0.01		
2/2/2023			<0.01					<0.01	
2/6/2023				<0.01	<0.01				<0.01
2/7/2023									

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-2	DGWC-20
8/31/2016			
9/1/2016	<0.01		
9/2/2016			<0.01
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016	<0.01		<0.01
12/8/2016			
3/28/2017			
3/29/2017	<0.01		<0.01
3/30/2017		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
7/11/2018	<0.01	<0.01	<0.01
11/6/2018		<0.01	
11/7/2018	<0.01		<0.01
8/27/2019		0.002 (J)	
8/28/2019	<0.01		
8/29/2019			<0.01
9/17/2019			
10/15/2019			
10/16/2019	<0.01		
10/17/2019		0.0018 (J)	<0.01
10/18/2019			
3/2/2020			
3/3/2020	<0.01	0.0022 (J)	
3/4/2020			<0.01
8/11/2020	<0.01	0.002 (J)	
8/12/2020			
8/13/2020			<0.01
8/14/2020			
9/22/2020	<0.01		<0.01
9/23/2020		0.0022 (J)	
9/24/2020			
3/1/2021			
3/2/2021	<0.01	0.0021 (J)	<0.01
3/3/2021			
3/4/2021			
9/8/2021			
9/9/2021	<0.01	0.0023 (J)	
9/10/2021			<0.01



# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-2	DGWC-20
9/13/2021			
1/18/2022			
1/20/2022		0.0022 (J)	
1/21/2022			<0.01
1/24/2022			
1/25/2022	<0.01		
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022	<0.01		
9/15/2022			<0.01
9/20/2022		0.0021 (J)	
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	<0.01	0.0021 (J)	
2/7/2023			<0.01

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8
8/30/2016									<0.01
8/31/2016								<0.01	
9/1/2016						<0.01	<0.01		
9/2/2016	<0.01	<0.01							
9/7/2016					<0.01				
12/6/2016								<0.01	<0.01
12/8/2016	<0.01	<0.01			<0.01	<0.01	<0.01		
3/28/2017				0.008 (J)				<0.01	
3/29/2017		<0.01							<0.01
3/30/2017	<0.01		0.0084 (J)				<0.01		
3/31/2017					<0.01	<0.01			
5/12/2017			0.0085 (J)	0.0062 (J)					
6/15/2017			0.0104	0.0044 (J)					
7/11/2017				0.0041 (J)				<0.01	<0.01
7/12/2017	<0.01		0.0092 (J)						
7/13/2017		<0.01			<0.01	<0.01	<0.01		
10/24/2017				0.0072 (J)					<0.01
10/25/2017	<0.01	<0.01			<0.01			<0.01	
10/26/2017			0.0077 (J)			<0.01	<0.01		
2/27/2018				0.0069 (J)				<0.01	<0.01
2/28/2018	<0.01	<0.01			<0.01				
3/1/2018			0.0045 (J)			<0.01			
3/2/2018							<0.01		
7/11/2018	<0.01				<0.01				
7/12/2018		<0.01	0.012			<0.01	<0.01		
11/6/2018				<0.01 (J)				<0.01	<0.01
11/7/2018	<0.01	<0.01			<0.01	<0.01	<0.01		
11/8/2018			0.012						
8/27/2019				0.0065 (J)				<0.01	
8/28/2019					<0.01				<0.01
8/29/2019	<0.01	<0.01	0.014			<0.01	<0.01		
10/15/2019				0.0061 (J)					
10/16/2019								<0.01	<0.01
10/17/2019	<0.01				<0.01	<0.01			
10/18/2019		<0.01	0.0091 (J)				<0.01		
3/2/2020				0.0059 (J)				<0.01	
3/3/2020	<0.01	<0.01							<0.01
3/4/2020			0.0047 (J)		<0.01	<0.01	<0.01		
8/11/2020									
8/12/2020				0.0057 (J)		<0.01		<0.01	<0.01
8/13/2020			0.013		<0.01		<0.01		
8/14/2020	<0.01	<0.01							
9/22/2020				0.0028 (J)	<0.01			<0.01	
9/23/2020						<0.01	<0.01		<0.01
9/24/2020	<0.01	<0.01	0.0088 (J)						
3/1/2021				0.0051 (J)					
3/2/2021								<0.01	<0.01
3/3/2021	<0.01	<0.01	0.0026 (J)		<0.01	<0.01	<0.01		
9/9/2021	<0.01		0.01						
9/10/2021		<0.01		0.0052 (J)		<0.01	<0.01	<0.01	
9/13/2021					<0.01				<0.01
1/20/2022	<0.01	<0.01	0.0073 (J)		<0.01				

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8
1/21/2022						<0.01			
1/24/2022				0.0045 (J)			<0.01	<0.01	
1/25/2022									<0.01
1/26/2022									
9/13/2022					<0.01	<0.01	<0.01		
9/14/2022								<0.01	
9/15/2022	<0.01								<0.01
9/16/2022		<0.01							
9/19/2022				0.0037 (J)					
9/20/2022			0.0095 (J)						
2/1/2023					<0.01				
2/3/2023				0.0035 (J)		<0.01	<0.01		
2/6/2023		<0.01	0.007 (J)						
2/7/2023	<0.01							<0.01	<0.01

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-9
8/30/2016	<0.01
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	<0.01
12/8/2016	
3/28/2017	<0.01
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	<0.01
7/12/2017	
7/13/2017	
10/24/2017	<0.01
10/25/2017	
10/26/2017	
2/27/2018	<0.01
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	<0.01
7/12/2018	
11/6/2018	<0.01
11/7/2018	
11/8/2018	
8/27/2019	<0.01
8/28/2019	
8/29/2019	
10/15/2019	
10/16/2019	
10/17/2019	<0.01
10/18/2019	
3/2/2020	
3/3/2020	<0.01
3/4/2020	
8/11/2020	<0.01
8/12/2020	
8/13/2020	
8/14/2020	
9/22/2020	<0.01
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	<0.01
3/3/2021	
9/9/2021	
9/10/2021	<0.01
9/13/2021	
1/20/2022	

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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DGWC-9

1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	<0.01
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	<0.01
9/20/2022	
2/1/2023	
2/3/2023	<0.01
2/6/2023	
2/7/2023	

# Time Series

Constituent: pH, Field (SU) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D
8/3/2020	4.93								
8/17/2020	5.02								
9/25/2020	5.53								
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	5.32							6.42	
4/15/2021									
9/10/2021			5.36					6.86	
9/13/2021	5.27	6.07			5.91	5.88			
9/14/2021				8.58			5.81		7.29
1/20/2022								6.43	
1/21/2022	5.23								
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						
6/6/2022									
9/8/2022	5.24								
9/13/2022				6.49					
9/14/2022						5.87			7.09
9/15/2022			5.43				5.86		
9/16/2022		5.92			5.82				
9/19/2022									
9/20/2022								6.38	
2/2/2023	5.3		5.47						
2/3/2023		5.95		6.17					
2/6/2023						5.9		6.44	
2/7/2023					5.86		5.92		7.3

# Time Series

Constituent: pH, Field (SU) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-122D	B-56
8/3/2020			
8/17/2020			4.82
9/25/2020			
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			
4/15/2021	5.46		
9/10/2021			
9/13/2021			4.69
9/14/2021	5.3		
1/20/2022	5.28		
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022			4.7
6/6/2022		6.02	
9/8/2022			
9/13/2022			
9/14/2022		6.07	
9/15/2022			
9/16/2022			4.56
9/19/2022	5.21		
9/20/2022			
2/2/2023			
2/3/2023	5.59		
2/6/2023		6.08	
2/7/2023			4.55

# Time Series

Constituent: pH, Field (SU) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93
3/28/2017									
5/11/2017									
6/15/2017									
7/12/2017									
10/24/2017									
11/15/2017									
3/8/2018									
7/12/2018									
11/7/2018									
1/28/2019		5.39							
1/30/2019			6.83						
3/13/2019									
8/28/2019									
9/11/2019	6.27	5.48							
9/12/2019			6.87						
9/18/2019				6.14					
9/23/2019					5.21				
10/16/2019									
10/21/2019	6.24		6.74		5.34	5.54			
10/22/2019		5.55							
10/24/2019				6.26					
3/9/2020									
8/13/2020	6.4			6.14					
8/14/2020						5.59			
8/17/2020					5.48		5.76		
8/19/2020									4.78
9/22/2020									
9/24/2020	6.55			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
3/12/2021	6.34	5.51	6.53		5.29				
3/15/2021									
9/9/2021	6.31								
9/13/2021							5.68		
9/14/2021		5.46	5.54	6.42	5.15				
9/15/2021								4.55	4.6
9/16/2021						5.58			
1/20/2022	6.32	5.46		6.48					
1/21/2022						5.56			
1/25/2022			6.35		5.07				
1/26/2022								4.5	4.74
1/27/2022							5.5		
1/28/2022									
9/8/2022	6.22								
9/9/2022	6.22 (D)								
9/12/2022								4.56	4.7
9/13/2022				6.34		5.6			
9/14/2022		5.31							
9/16/2022			6.6		5.02 (D)		5.47		



# Time Series

Constituent: pH, Field (SU) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93
1/31/2023								4.48	4.68
2/1/2023									
2/2/2023	6.33	5.85							
2/3/2023						5.59			
2/6/2023				6.53					
2/7/2023			6.22		5.28		5.59		

# Time Series

Constituent: pH, Field (SU) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-97	B-98	DGWA-53 (bg)
3/28/2017			6.29
5/11/2017			6.6
6/15/2017			6.41
7/12/2017			5.91
10/24/2017			5.51
11/15/2017			6.5
3/8/2018			6.18
7/12/2018			6.33
11/7/2018			6.22
1/28/2019			
1/30/2019			
3/13/2019			6
8/28/2019			6.04
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/16/2019			6.69
10/21/2019			
10/22/2019			
10/24/2019			
3/9/2020			6.41
8/13/2020			6.17
8/14/2020			
8/17/2020			
8/19/2020			
9/22/2020			6.43
9/24/2020			
9/25/2020			
9/28/2020			
3/4/2021			
3/5/2021			
3/9/2021	5.55		
3/12/2021			6.38
3/15/2021		6.3	
9/9/2021			6.41
9/13/2021			
9/14/2021			
9/15/2021	5.49	5.4	
9/16/2021			
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	6.52	6.52	
1/27/2022			
1/28/2022			6.35
9/8/2022			6.32
9/9/2022			
9/12/2022			
9/13/2022	5.54	6.18	
9/14/2022			
9/16/2022			

# Time Series

Constituent: pH, Field (SU) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-97	B-98	DGWA-53 (bg)
1/31/2023		6.76	
2/1/2023	5.47		6.42
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			

# Time Series

Constituent: pH, Field (SU) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17
8/31/2016			4.58	5.83			5.68		
9/1/2016				5.67					
9/2/2016									
9/6/2016						5.69		5.79	
9/7/2016									5.05
12/6/2016			4.9	5.91			5.63		
12/7/2016					5.65	5.96		5.94	
12/8/2016									5.12
3/28/2017		5.94							
3/29/2017			4.62	5.74	5.61		5.68		
3/30/2017						5.94		5.8	5.08
5/11/2017									
5/12/2017		5.46							
5/15/2017	5.72								
6/15/2017	5.74								
6/16/2017		5.81							
7/11/2017	5.62	5.74							
7/12/2017			4.81	5.82	5.81	5.84	5.66	5.81	5
8/8/2017	5.6								
10/24/2017	5.71	5.86	4.8	5.79					
10/25/2017					6.07		6.18	5.9	5.73
11/15/2017		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	5.22
7/10/2018	5.44	5.63	5.27	5.62		5.92			
7/11/2018							5.61	5.87	5.07
11/6/2018	5.71	5.79	5.3	5.69					
11/7/2018					5.85	5.87	5.58	5.9	5.09
3/12/2019	5.52	5.74	5.26	5.7	5.98				
3/13/2019						5.79	5.61		5.07
3/14/2019								5.77	
8/27/2019	5.53	5.87	5.14	5.55	5.55		5.58		4.96
8/28/2019						5.71		5.88	
8/29/2019									
9/17/2019					5.6				
10/15/2019	5.61	5.88	4.96	5.6	5.89				
10/16/2019						5.69	5.66		
10/17/2019								5.76	
10/18/2019									5.08
3/2/2020	5.54	5.77		5.62	6.13				
3/3/2020			4.77			5.71	5.73	5.79	5.07
3/4/2020									5.07
8/11/2020	5.86	5.96	4.92	5.68	5.69		5.73		
8/12/2020						5.68			
8/13/2020								6.58	
8/14/2020									5.01
9/22/2020	6.01	6.06		5.54	6		5.7		
9/23/2020						5.72		5.85	
9/24/2020			4.89						5.1
3/1/2021	5.43	5.8							
3/2/2021				5.59		5.68	5.69	5.81	
3/3/2021					6.13				5.23



# Time Series

Constituent: pH, Field (SU) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-2	DGWC-20
8/31/2016			
9/1/2016	4.64		
9/2/2016			4.7
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016	4.63		
12/8/2016			
3/28/2017			
3/29/2017	4.7		4.7
3/30/2017		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	4.76		4.67
8/8/2017			
10/24/2017		5.82	
10/25/2017	4.66		4.71
11/15/2017			
2/27/2018		5.85	
2/28/2018	4.63		4.51
7/10/2018			
7/11/2018	4.71	5.85	4.68
11/6/2018		5.88	
11/7/2018	4.69		4.64
3/12/2019		5.94	
3/13/2019	4.76		4.65
3/14/2019			
8/27/2019		5.94	
8/28/2019	4.85		
8/29/2019			4.64
9/17/2019			
10/15/2019			
10/16/2019	4.87		
10/17/2019		6.16	4.64
10/18/2019			
3/2/2020			
3/3/2020	4.89	5.94	
3/4/2020			4.22
8/11/2020	4.9	6.04	
8/12/2020			
8/13/2020			4.36
8/14/2020			
9/22/2020	4.91		4.66
9/23/2020		5.99	
9/24/2020			
3/1/2021			
3/2/2021	4.84	6.01	4.45
3/3/2021			

# Time Series

Constituent: pH, Field (SU) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-19	DGWC-2	DGWC-20
3/4/2021			
9/8/2021			
9/9/2021	4.82	6	
9/10/2021			4.67
9/13/2021			
1/18/2022			
1/20/2022		5.93	
1/21/2022			4.47
1/24/2022			
1/25/2022	4.79		
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022	4.81		
9/15/2022			4.58
9/20/2022		5.98	
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	4.82	5.17	
2/7/2023			4.33

# Time Series

Constituent: pH, Field (SU) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8
8/30/2016									5.33
8/31/2016								4.31	
9/1/2016						5.11	4.7		
9/2/2016	5.7	5.74							
9/7/2016					5.35				
12/6/2016								4.43	5.39
12/8/2016	5.64	6.03			5.41	5.71	4.58		
3/28/2017				6.01				4.44	
3/29/2017		5.77							5.23
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	5.33
7/12/2017	5.71		5.97						
7/13/2017		5.71			5.27	4.95	4.3		
10/24/2017				5.99					5.05
10/25/2017	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	5.08
2/28/2018	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	5.11
7/11/2018					5.19				
7/12/2018		5.62	5.97			4.33	4.36		
11/6/2018				5.97				4.89	5.13
11/7/2018	5.61	5.71			5.18	4.48	4.23		
11/8/2018			5.96						
3/12/2019				5.85				4.42	5.07
3/13/2019	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				5.11
8/29/2019	5.61	5.66	5.96			4.35	4.28		
10/15/2019				5.98					
10/16/2019								4.78	5.33
10/17/2019	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							5.12
3/4/2020			5.68		5.18	3.86	4.27		
8/11/2020									
8/12/2020				5.93		4.43		4.84	5.36
8/13/2020			6		5.34		4.26		
8/14/2020	5.66	5.76							
9/22/2020				5.88	5.76			4.83	
9/23/2020						4.4	4.64		5.21
9/24/2020	5.64	5.69	6.19						
3/1/2021				5.82					
3/2/2021							5		6.6





# Time Series

Constituent: pH, Field (SU) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-9
8/30/2016	4.08
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	4.15
12/8/2016	
3/28/2017	4.16
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	4.23
7/12/2017	
7/13/2017	
10/24/2017	4.06
10/25/2017	
10/26/2017	
11/15/2017	
2/27/2018	4.04
2/28/2018	
3/1/2018	
3/2/2018	
7/10/2018	
7/11/2018	4.03
7/12/2018	
11/6/2018	4
11/7/2018	
11/8/2018	
3/12/2019	3.98
3/13/2019	
3/14/2019	
8/27/2019	4.02
8/28/2019	
8/29/2019	
10/15/2019	
10/16/2019	
10/17/2019	4.02
10/18/2019	
3/2/2020	
3/3/2020	4.07
3/4/2020	
8/11/2020	4
8/12/2020	
8/13/2020	
8/14/2020	
9/22/2020	4
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	3.99

# Time Series

Constituent: pH, Field (SU) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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DGWC-9

3/3/2021	
9/9/2021	
9/10/2021	3.98
9/13/2021	
1/20/2022	
1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	3.68
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	3.98
9/20/2022	
2/1/2023	
2/3/2023	4.02
2/6/2023	
2/7/2023	

# Time Series

Constituent: Selenium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D
8/17/2020	<0.005								
9/25/2020	<0.005								
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	0.0019 (J)							<0.005	
4/15/2021									
9/10/2021			<0.005					<0.005	
9/13/2021	<0.005	<0.005			<0.005	<0.005			
9/14/2021				<0.005			<0.005		<0.005
1/20/2022								<0.005	
1/21/2022	<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						
6/6/2022									
9/8/2022	<0.005								
9/13/2022				<0.005					
9/14/2022						<0.005			<0.005
9/15/2022			<0.005				<0.005		
9/16/2022		<0.005			<0.005				
9/19/2022									
9/20/2022								<0.005	
2/2/2023	<0.005		<0.005						
2/3/2023		<0.005		0.0018 (J)					
2/6/2023						<0.005		<0.005	
2/7/2023					<0.005		<0.005		<0.005

# Time Series

Constituent: Selenium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-122D	B-56
8/17/2020			0.011
9/25/2020			
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			
4/15/2021	0.0016 (J)		
9/10/2021			
9/13/2021			0.011
9/14/2021	0.0022 (J)		
1/20/2022	0.0021 (J)		
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022			0.0066
6/6/2022		<0.005	
9/8/2022			
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022			0.01
9/19/2022	0.0038 (J)		
9/20/2022			
2/2/2023			
2/3/2023	0.005 (J)		
2/6/2023		<0.005	
2/7/2023			0.01

# Time Series

Constituent: Selenium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93
3/28/2017									
5/11/2017									
6/15/2017									
7/12/2017									
10/24/2017									
2/19/2018			<0.005						
3/8/2018									
7/12/2018									
11/7/2018									
1/28/2019		<0.005							
1/30/2019	<0.005		<0.005						
8/28/2019									
9/11/2019	<0.005	<0.005							
9/12/2019			<0.005						
9/18/2019				<0.005					
9/23/2019					<0.005				
10/16/2019									
10/21/2019	<0.005		<0.005		0.0016 (J)	0.0082 (J)			
10/22/2019		<0.005							
10/24/2019				<0.005					
3/9/2020									
8/13/2020	<0.005			<0.005					
8/14/2020						0.015			
8/17/2020					<0.005		0.0017 (J)		
8/19/2020									0.018
9/22/2020									
9/24/2020	<0.005			<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)
3/12/2021	<0.005								
9/9/2021	<0.005								
9/13/2021							0.0021 (J)		
9/14/2021		<0.005	<0.005	<0.005	<0.005				
9/15/2021								0.0067	0.0076
9/16/2021						0.025			
1/20/2022	<0.005	<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
1/27/2022							<0.005		
1/28/2022									
9/8/2022	<0.005								
9/12/2022								0.012	0.013
9/13/2022				<0.005		0.024			
9/14/2022		<0.005							
9/16/2022			<0.005		<0.005		0.002 (J)		
1/31/2023								0.0086	0.013
2/1/2023									
2/2/2023	<0.005	<0.005							

# Time Series

Constituent: Selenium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93
2/3/2023						0.021			
2/6/2023				<0.005					
2/7/2023			<0.005		0.0025 (J)		0.0024 (J)		

# Time Series

Constituent: Selenium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-97	B-98	DGWA-53 (bg)
3/28/2017			<0.005
5/11/2017			<0.005
6/15/2017			<0.005
7/12/2017			<0.005
10/24/2017			<0.005
2/19/2018			
3/8/2018			<0.005
7/12/2018			<0.005
11/7/2018			<0.005
1/28/2019			
1/30/2019			
8/28/2019			<0.005
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/16/2019			<0.005
10/21/2019			
10/22/2019			
10/24/2019			
3/9/2020			<0.005
8/13/2020			<0.005
8/14/2020			
8/17/2020			
8/19/2020			
9/22/2020			<0.005
9/24/2020			
9/25/2020			
9/28/2020			
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021			<0.005
9/9/2021			<0.005
9/13/2021			
9/14/2021			
9/15/2021	0.0024 (J)	0.0033 (J)	
9/16/2021			
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	0.0015 (J)	<0.005	
1/27/2022			
1/28/2022			<0.005
9/8/2022			<0.005
9/12/2022			
9/13/2022	0.0032 (J)	<0.005	
9/14/2022			
9/16/2022			
1/31/2023		<0.005	
2/1/2023	0.0036 (J)		<0.005
2/2/2023			



# Time Series

Constituent: Selenium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-97	B-98	DGWA-53 (bg)
2/3/2023			
2/6/2023			
2/7/2023			

# Time Series

Constituent: Selenium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17
8/31/2016			0.0366	<0.005			0.0016 (J)		
9/1/2016					0.0017 (J)				
9/2/2016									
9/6/2016						0.0011 (J)		<0.005	
9/7/2016									0.007 (J)
12/6/2016			0.0026 (J)	<0.005			<0.005		
12/7/2016					<0.005	0.0015 (J)		<0.005	
12/8/2016									0.0087 (J)
3/28/2017	<0.005	<0.005							
3/29/2017			0.0286	<0.005	0.0017 (J)		<0.005		
3/30/2017						0.0015 (J)		<0.005	0.0099 (J)
5/11/2017									
5/12/2017		<0.005							
5/15/2017	<0.005								
6/15/2017	<0.005								
6/16/2017		<0.005							
7/11/2017	<0.005	<0.005							
7/12/2017			0.0257	<0.005	0.0019 (J)	<0.01	<0.005	<0.005	0.0072 (J)
8/8/2017	<0.005								
10/24/2017	<0.005	<0.005	0.0281	<0.005					
10/25/2017					0.0024 (J)		<0.005	<0.005	0.0078 (J)
11/15/2017						0.0019 (J)			
2/27/2018	<0.005	<0.005	0.0667	<0.005	<0.005		<0.005		
2/28/2018						<0.01		<0.005	<0.01
7/11/2018					<0.005		0.002 (J)	<0.005	0.007 (J)
11/6/2018	<0.005	<0.005	0.049	<0.005					
11/7/2018					<0.01 (J)	<0.01 (J)	<0.01 (J)	<0.01 (J)	<0.01
8/27/2019	<0.005	<0.005	0.015	<0.005	<0.005		<0.005		0.0073 (J)
8/28/2019						0.0039 (J)		<0.005	
8/29/2019									
9/17/2019					0.0014 (J)				
10/15/2019	<0.005	<0.005	0.071	<0.005	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	<0.005		<0.005	<0.005				
3/3/2020			0.021			0.0062 (J)	0.0014 (J)	<0.005	
3/4/2020									0.0074 (J)
8/11/2020	<0.005	<0.005	0.023	<0.005	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		<0.005	<0.005		<0.005		
9/23/2020						0.0053 (J)		<0.005	
9/24/2020			0.074						0.015
3/1/2021	<0.005	<0.005							
3/2/2021				<0.005		0.006	<0.005	<0.005	
3/3/2021					<0.005				0.0072
3/4/2021			0.05						
9/8/2021		<0.005							
9/9/2021	<0.005			<0.005	<0.005	0.006	0.0017 (J)	<0.005	
9/10/2021			0.034						

# Time Series

Constituent: Selenium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17
9/13/2021									0.0071
1/18/2022	<0.005	<0.005							
1/20/2022									
1/21/2022									
1/24/2022								<0.005	0.0064
1/25/2022				<0.005	<0.005	0.006	0.0016 (J)		
1/26/2022			0.015						
9/7/2022	<0.005	<0.005							
9/13/2022							<0.005	<0.005	
9/14/2022									0.0064
9/15/2022			0.02	<0.005	<0.005	0.004 (J)			
9/20/2022									
1/31/2023	<0.005	<0.005							
2/1/2023						0.0036 (J)	0.0014 (J)		
2/2/2023			0.015					<0.005	
2/6/2023				<0.005	<0.005				0.0057
2/7/2023									

# Time Series

Constituent: Selenium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-2	DGWC-20
8/31/2016			
9/1/2016	0.0093 (J)		
9/2/2016			0.0671
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016	<0.01		0.0056 (J)
12/8/2016			
3/28/2017			
3/29/2017	0.0071 (J)		0.0521
3/30/2017		<0.01	
5/11/2017		<0.01	
5/12/2017			
5/15/2017			
6/15/2017		<0.01	
6/16/2017			
7/11/2017		<0.01	
7/12/2017	0.0065 (J)		0.0483
8/8/2017			
10/24/2017		<0.01	
10/25/2017	0.0087 (J)		0.0506
11/15/2017			
2/27/2018		<0.01	
2/28/2018	0.0114		0.0755
7/11/2018	0.0036 (J)	0.0045 (J)	0.022
11/6/2018		<0.01 (J)	
11/7/2018	<0.01 (J)		0.044
8/27/2019		0.0069 (J)	
8/28/2019	0.004 (J)		
8/29/2019			0.029
9/17/2019			
10/15/2019			
10/16/2019	0.006 (J)		
10/17/2019		0.0051 (J)	0.071
10/18/2019			
3/2/2020			
3/3/2020	0.0066 (J)	0.0047 (J)	
3/4/2020			0.071
8/11/2020	0.0096 (J)	0.0053 (J)	
8/12/2020			
8/13/2020			0.091
8/14/2020			
9/22/2020	0.0052 (J)		0.023
9/23/2020		0.0046 (J)	
9/24/2020			
3/1/2021			
3/2/2021	0.0091	0.0037 (J)	0.078
3/3/2021			
3/4/2021			
9/8/2021			
9/9/2021	0.0083	0.0031 (J)	
9/10/2021			0.031

# Time Series

Constituent: Selenium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-19	DGWC-2	DGWC-20
9/13/2021			
1/18/2022			
1/20/2022		0.0031 (J)	
1/21/2022			0.041
1/24/2022			
1/25/2022	0.0029 (J)		
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022	0.0073		
9/15/2022			0.062
9/20/2022		0.0018 (J)	
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	0.0042 (J)	0.0014 (J)	
2/7/2023			0.057

# Time Series

Constituent: Selenium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8
8/30/2016									0.0032 (J)
8/31/2016								0.0182	
9/1/2016						0.0217	0.0084 (J)		
9/2/2016	<0.005	<0.005							
9/7/2016				<0.005					
12/6/2016								0.012	<0.005
12/8/2016	<0.005	<0.005			<0.005	0.017	0.0084 (J)		
3/28/2017				<0.005				0.168	
3/29/2017		<0.005							0.0048 (J)
3/30/2017	<0.005		<0.005				0.0079 (J)		
3/31/2017					<0.005	0.0133			
5/12/2017			<0.005	<0.005					
6/15/2017			<0.005	<0.005					
7/11/2017				<0.005				0.0607	0.0031 (J)
7/12/2017	<0.005		<0.005						
7/13/2017		<0.005			<0.005	0.0068 (J)	0.0062 (J)		
10/24/2017				<0.005					0.0069 (J)
10/25/2017	<0.005	<0.005			<0.005			0.034	
10/26/2017			<0.005			0.0097 (J)	0.0058 (J)		
2/27/2018				<0.005				0.0348	<0.005
2/28/2018	<0.005	<0.005			<0.005				
3/1/2018			<0.005			0.0124			
3/2/2018							<0.005		
7/11/2018	<0.005				<0.005				
7/12/2018		0.0017 (J)	<0.005			0.015	0.013		
11/6/2018				<0.005				<0.01 (J)	<0.01 (J)
11/7/2018	<0.005	<0.005			<0.005	<0.01 (J)	<0.01 (J)		
11/8/2018			<0.005						
8/27/2019				<0.005				0.0031 (J)	
8/28/2019					<0.005				<0.005
8/29/2019	<0.005	<0.005	<0.005			0.004 (J)	0.0023 (J)		
10/15/2019				0.0014 (J)					
10/16/2019								0.015	0.0016 (J)
10/17/2019	<0.005				<0.005	0.0062 (J)			
10/18/2019		<0.005	<0.005				0.005 (J)		
3/2/2020				<0.005				0.032	
3/3/2020	<0.005	<0.005							0.0018 (J)
3/4/2020			<0.005		<0.005	0.0065 (J)	0.0061 (J)		
8/11/2020									
8/12/2020				<0.005		0.002 (J)		0.011	<0.005
8/13/2020			<0.005		<0.005		0.0029 (J)		
8/14/2020	<0.005	<0.005							
9/22/2020				<0.005	<0.005			0.04	
9/23/2020						<0.01	0.0016 (J)		0.0028 (J)
9/24/2020	<0.005	<0.005	<0.005						
3/1/2021				<0.005					
3/2/2021								0.0081	<0.005
3/3/2021	<0.005	<0.005	<0.005		<0.005	0.0039 (J)	0.0025 (J)		
9/9/2021	<0.005		<0.005						
9/10/2021		<0.005		<0.005		0.0035 (J)	0.0022 (J)	0.0099	
9/13/2021					<0.005				<0.005
1/20/2022	<0.005	<0.005	<0.005		<0.005				

# Time Series

Constituent: Selenium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8
1/21/2022						0.0016 (J)			
1/24/2022				<0.005			<0.005	0.0048 (J)	
1/25/2022									<0.005
1/26/2022									
9/13/2022					<0.005	0.0031 (J)	0.0019 (J)		
9/14/2022								0.019	
9/15/2022	<0.005								<0.005
9/16/2022		<0.005							
9/19/2022				<0.005					
9/20/2022			<0.005						
2/1/2023					<0.005				
2/3/2023				<0.005		0.0015 (J)	<0.005		
2/6/2023		<0.005	<0.005						
2/7/2023	<0.005							0.0082	<0.005

# Time Series

Constituent: Selenium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-9
8/30/2016	0.0833
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	0.0065 (J)
12/8/2016	
3/28/2017	0.0954
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	0.0561
7/12/2017	
7/13/2017	
10/24/2017	0.0653
10/25/2017	
10/26/2017	
2/27/2018	0.13
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	0.045
7/12/2018	
11/6/2018	0.12
11/7/2018	
11/8/2018	
8/27/2019	0.067
8/28/2019	
8/29/2019	
10/15/2019	
10/16/2019	
10/17/2019	0.19
10/18/2019	
3/2/2020	
3/3/2020	0.046
3/4/2020	
8/11/2020	0.11
8/12/2020	
8/13/2020	
8/14/2020	
9/22/2020	0.23
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	0.07
3/3/2021	
9/9/2021	
9/10/2021	0.057
9/13/2021	
1/20/2022	



# Time Series

Constituent: Selenium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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DGWC-9

1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	0.025
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	0.048
9/20/2022	
2/1/2023	
2/3/2023	0.031
2/6/2023	
2/7/2023	

# Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D
9/25/2020	385								
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	388							102	
4/15/2021									
9/10/2021			271					93.2	
9/13/2021	351	174			147	275			
9/14/2021				456			299		243
1/20/2022								93.1	
1/21/2022	344								
1/24/2022				423		276	277		238
1/25/2022					132				
1/26/2022		144							
1/27/2022			231						
6/6/2022									
9/8/2022	399								
9/13/2022				505					
9/14/2022						327			228
9/15/2022			258				318		
9/16/2022		223			137				
9/19/2022									
9/20/2022								108	
2/2/2023	356		252						
2/3/2023		159		495					
2/6/2023						299		111	
2/7/2023					127		313		229

# Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-120D	B-122D	B-56
9/25/2020			
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			
4/15/2021	556		
9/10/2021			
9/13/2021			189
9/14/2021	552		
1/20/2022	475		
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022			185
6/6/2022		97.7	
9/8/2022			
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022			234
9/19/2022	489		
9/20/2022			
2/2/2023			
2/3/2023	464		
2/6/2023		108	
2/7/2023			247

# Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93
3/28/2017									
5/11/2017									
6/15/2017									
7/12/2017									
10/24/2017									
11/15/2017									
3/8/2018									
7/12/2018									
11/7/2018									
1/28/2019		87.9							
1/30/2019	74.7		292						
3/13/2019									
10/16/2019									
10/21/2019	55.3		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									
3/9/2020									
9/22/2020									
9/24/2020	50.6			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
3/12/2021	46.5								
9/9/2021	49.2								
9/13/2021							321		
9/14/2021		73.2	268	2.5	326				
9/15/2021								384	478
9/16/2021						106			
1/20/2022	50.3	49.4		<1					
1/21/2022						106			
1/25/2022			240		363				
1/26/2022								305	477
1/27/2022							371		
1/28/2022									
9/8/2022	45.8								
9/12/2022								394	508
9/13/2022				10		109			
9/14/2022		93.3							
9/16/2022			285		404		433		
1/31/2023								393	536
2/1/2023									
2/2/2023	52.1	50.1							
2/3/2023						106			
2/6/2023				1.8					
2/7/2023			276		402		435		

# Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-97	B-98	DGWA-53 (bg)
3/28/2017			49
5/11/2017			21
6/15/2017			16
7/12/2017			10
10/24/2017			15
11/15/2017			3.8
3/8/2018			9.7
7/12/2018			8
11/7/2018			12.8
1/28/2019			
1/30/2019			
3/13/2019			23.7
10/16/2019			15.1
10/21/2019			
10/22/2019			
10/24/2019			
11/22/2019			
12/18/2019			
12/19/2019			
2/17/2020	242	150	
3/9/2020			9.5
9/22/2020			13.5
9/24/2020			
9/25/2020			
9/28/2020			
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021			8.8
9/9/2021			11.9
9/13/2021			
9/14/2021			
9/15/2021	551	325	
9/16/2021			
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	531	18.4	
1/27/2022			
1/28/2022			13.1
9/8/2022			12
9/12/2022			
9/13/2022	677	92.1	
9/14/2022			
9/16/2022			
1/31/2023		8.7	
2/1/2023	648		13.3
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			

# Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17
8/31/2016			400	200			44		
9/1/2016					390				
9/2/2016									
9/6/2016						170		180	
9/7/2016									230
12/6/2016			190	190			45		
12/7/2016					350	160		180	
12/8/2016									240
3/28/2017	2.7	17							
3/29/2017			360	200	150		81 (O)		
3/30/2017						180		210	260
5/11/2017									
5/12/2017		17							
5/15/2017	1								
6/15/2017	0.86 (J)								
6/16/2017		11							
7/11/2017	1.4	11							
7/12/2017			390	210	350	170	44	170	230
8/8/2017	1.5								
10/24/2017	1.4	9.6	410	210					
10/25/2017					400		42	180	240
11/15/2017		7.8	390			180			
2/27/2018	0.54 (J)	7.4	335	220	356		41		
2/28/2018						43.5		168	203
7/11/2018					344		40.6	154	234
11/6/2018	<1 (J)	7.3	356	302					
11/7/2018					298	162	41.3	168	248
3/12/2019	0.35 (J)	7	297	275	284				
3/13/2019						179	41.2		268
3/14/2019								195	
10/15/2019	0.16 (J)	7.4	263	273	270				
10/16/2019						167	42.1		
10/17/2019								146	
10/18/2019									222
3/2/2020	<1	8.5		264	181				
3/3/2020			213			157	45.5	148	
3/4/2020									222
9/22/2020	<1	6.5		267	183		40.2		
9/23/2020						134		146	
9/24/2020			204						259
3/1/2021	<1	5.2							
3/2/2021				250		131	42.6	148	
3/3/2021					203				237
3/4/2021			240						
9/8/2021		6.1							
9/9/2021	<1			247	126	127	42.3	139	
9/10/2021			271						
9/13/2021									222
1/18/2022	<1	6.3							
1/20/2022									
1/21/2022									
1/24/2022								127	225

# Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17
1/25/2022				250	111	116	44.4		
1/26/2022			241						
9/7/2022	<1	7							
9/13/2022							41.2	145	
9/14/2022									268
9/15/2022			229	287	191	133			
9/20/2022									
1/31/2023	<1	6.8							
2/1/2023						97.5	45.9		
2/2/2023			235					137	
2/6/2023				273	142				262
2/7/2023									

# Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-2	DGWC-20
8/31/2016			
9/1/2016	240		
9/2/2016			580
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016	250		650
12/8/2016			
3/28/2017			
3/29/2017	250		640
3/30/2017		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	250		630
8/8/2017			
10/24/2017		260	
10/25/2017	270		610
11/15/2017			
2/27/2018		189	
2/28/2018	244		584
7/11/2018	249	162	501
11/6/2018		190	
11/7/2018	266		554
3/12/2019		159	
3/13/2019	299		539
3/14/2019			
10/15/2019			
10/16/2019	323		
10/17/2019		134	426
10/18/2019			
3/2/2020			
3/3/2020	292	118	
3/4/2020			434
9/22/2020	310		408
9/23/2020		122	
9/24/2020			
3/1/2021			
3/2/2021	324	112	458
3/3/2021			
3/4/2021			
9/8/2021			
9/9/2021	315	110	
9/10/2021			399
9/13/2021			
1/18/2022			
1/20/2022		101	
1/21/2022			406
1/24/2022			



# Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-19	DGWC-2	DGWC-20
1/25/2022	288		
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022	388		
9/15/2022			462
9/20/2022		98.4	
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	379	96.4	
2/7/2023			517





# Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-9
8/30/2016	300
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	320
12/8/2016	
3/28/2017	300
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	320
7/12/2017	
7/13/2017	
10/24/2017	430
10/25/2017	
10/26/2017	
11/15/2017	
2/27/2018	327
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	344
7/12/2018	
11/6/2018	438
11/7/2018	
11/8/2018	
3/12/2019	362
3/13/2019	
3/14/2019	
10/15/2019	
10/16/2019	
10/17/2019	331
10/18/2019	
3/2/2020	
3/3/2020	247
3/4/2020	
9/22/2020	282
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	266
3/3/2021	
9/9/2021	
9/10/2021	264
9/13/2021	
1/20/2022	
1/21/2022	
1/24/2022	
1/25/2022	

# Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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DGWC-9

1/26/2022	245
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	274
9/20/2022	
2/1/2023	
2/3/2023	277
2/6/2023	
2/7/2023	

# Time Series

Constituent: Thallium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D
8/17/2020	<0.001								
9/25/2020	<0.001								
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							<0.001	
4/15/2021									
9/10/2021			<0.001					<0.001	
9/13/2021	<0.001	<0.001			<0.001	<0.001			
9/14/2021				<0.001			<0.001		<0.001
1/20/2022								<0.001	
1/21/2022	<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						
6/6/2022									
9/8/2022	<0.001								
9/13/2022				<0.001					
9/14/2022						<0.001			<0.001
9/15/2022			<0.001				<0.001		
9/16/2022		<0.001			<0.001				
9/19/2022									
9/20/2022								<0.001	
2/2/2023	<0.001		<0.001						
2/3/2023		<0.001		<0.001					
2/6/2023						<0.001		<0.001	
2/7/2023					<0.001		<0.001		<0.001

# Time Series

Constituent: Thallium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-122D	B-56
8/17/2020			0.00016 (J)
9/25/2020			
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			
4/15/2021	<0.001		
9/10/2021			
9/13/2021			0.00024 (J)
9/14/2021	<0.001		
1/20/2022	<0.001		
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022			0.00032 (J)
6/6/2022		<0.001	
9/8/2022			
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022			0.00024 (J)
9/19/2022	<0.001		
9/20/2022			
2/2/2023			
2/3/2023	<0.001		
2/6/2023		<0.001	
2/7/2023			0.00028 (J)

# Time Series

Constituent: Thallium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93
3/28/2017									
5/11/2017									
6/15/2017									
7/12/2017									
10/24/2017									
3/8/2018									
7/12/2018									
11/7/2018									
1/28/2019		<0.001							
1/30/2019	<0.001		<0.001						
8/28/2019									
9/11/2019	<0.001	<0.001							
9/12/2019			<0.001						
9/18/2019				<0.001					
9/23/2019					9.9E-05 (J)				
10/16/2019									
10/21/2019	<0.001		<0.001		0.00011 (J)	7.2E-05 (J)			
10/22/2019		<0.001							
10/24/2019				<0.001					
3/9/2020									
8/13/2020	<0.001			<0.001					
8/14/2020						<0.001			
8/17/2020					<0.001		<0.001		
8/19/2020									<0.001
9/22/2020									
9/24/2020	<0.001			<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
3/12/2021	<0.001								
9/9/2021	<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
9/16/2021						<0.001			
1/20/2022	<0.001	<0.001		<0.001					
1/21/2022						<0.001			
1/25/2022			<0.001		<0.001				
1/26/2022								<0.001	<0.001
1/27/2022							<0.001		
1/28/2022									
9/8/2022	<0.001								
9/12/2022								0.0002 (J)	<0.001
9/13/2022				<0.001		<0.001			
9/14/2022		<0.001							
9/16/2022			<0.001		<0.001		<0.001		
1/31/2023								0.00021 (J)	<0.001
2/1/2023									
2/2/2023	<0.001	<0.001							
2/3/2023						<0.001			



# Time Series

Constituent: Thallium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93
2/6/2023				<0.001					
2/7/2023			<0.001		<0.001		<0.001		

# Time Series

Constituent: Thallium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-97	B-98	DGWA-53 (bg)
3/28/2017			<0.001
5/11/2017			<0.001
6/15/2017			<0.001
7/12/2017			<0.001
10/24/2017			<0.001
3/8/2018			<0.001
7/12/2018			<0.001
11/7/2018			<0.001
1/28/2019			
1/30/2019			
8/28/2019			<0.001
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/16/2019			<0.001
10/21/2019			
10/22/2019			
10/24/2019			
3/9/2020			<0.001
8/13/2020			<0.001
8/14/2020			
8/17/2020			
8/19/2020			
9/22/2020			<0.001
9/24/2020			
9/25/2020			
9/28/2020			
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021			<0.001
9/9/2021			<0.001
9/13/2021			
9/14/2021			
9/15/2021	<0.001	<0.001	
9/16/2021			
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	<0.001	<0.001	
1/27/2022			
1/28/2022			<0.001
9/8/2022			<0.001
9/12/2022			
9/13/2022	<0.001	<0.001	
9/14/2022			
9/16/2022			
1/31/2023		<0.001	
2/1/2023	<0.001		<0.001
2/2/2023			
2/3/2023			

# Time Series

Constituent: Thallium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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B-97

B-98

DGWA-53 (bg)

2/6/2023

2/7/2023

# Time Series

Constituent: Thallium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17
8/31/2016			0.0004 (J)	<0.001			<0.001		
9/1/2016					<0.001				
9/2/2016									
9/6/2016						<0.001		<0.001	
9/7/2016									<0.001
12/6/2016			0.0004 (J)	<0.001			<0.001		
12/7/2016					<0.001	<0.001		<0.001	
12/8/2016									<0.001
3/28/2017	<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	0.0002 (J)
5/11/2017									
5/12/2017		<0.001							
5/15/2017	<0.001								
6/15/2017	<0.001								
6/16/2017		<0.001							
7/11/2017	<0.001	<0.001							
7/12/2017			0.0005 (J)	<0.001	9E-05 (J)	<0.001	<0.001	<0.001	0.0002 (J)
8/8/2017	<0.001								
10/24/2017	<0.001	<0.001	0.0004 (J)	<0.001					
10/25/2017					9E-05 (J)		<0.001	<0.001	0.0002 (J)
11/15/2017						<0.001			
2/27/2018	<0.001	<0.001	<0.005	<0.001	<0.001		<0.001		
2/28/2018						<0.001		<0.001	0.00015 (J)
7/11/2018					<0.001		<0.001	<0.001	0.00017 (J)
11/6/2018	<0.001	<0.001	<0.001 (J)	<0.001					
11/7/2018					<0.001	<0.001	<0.001	<0.001 (J)	<0.001
8/27/2019	<0.001	<0.001	0.00036 (J)	<0.001	8.9E-05 (J)		<0.001		0.00018 (J)
8/28/2019						<0.001		<0.001	
8/29/2019									
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		
10/17/2019								<0.001	
10/18/2019									0.00014 (J)
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									0.00019 (J)
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	
8/14/2020									0.00019 (J)
9/22/2020	<0.001	<0.001		<0.001	<0.001		<0.001		
9/23/2020						<0.001		<0.001	
9/24/2020			0.00034 (J)						0.00018 (J)
3/1/2021	<0.001	<0.001							
3/2/2021				<0.001		<0.001	<0.001	<0.001	
3/3/2021					<0.001				0.00017 (J)
3/4/2021			0.00042 (J)						
9/8/2021		<0.001							
9/9/2021	<0.001			<0.001	<0.001	<0.001	<0.001	<0.001	
9/10/2021			0.00027 (J)						

# Time Series

Constituent: Thallium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17
9/13/2021									<0.001
1/18/2022	<0.001	<0.001							
1/20/2022									
1/21/2022									
1/24/2022								<0.001	<0.001
1/25/2022				<0.001	<0.001	<0.001	<0.001		
1/26/2022			0.00033 (J)						
9/7/2022	<0.001	<0.001							
9/13/2022							<0.001	<0.001	
9/14/2022									<0.001
9/15/2022			<0.005	<0.001	<0.001	<0.001			
9/20/2022									
1/31/2023	<0.001	<0.001							
2/1/2023						<0.001	<0.001		
2/2/2023			<0.005					<0.001	
2/6/2023				<0.001	<0.001				<0.001
2/7/2023									

# Time Series

Constituent: Thallium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-2	DGWC-20
8/31/2016			
9/1/2016	0.0005 (J)		
9/2/2016			<0.01
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016	0.0005 (J)		0.0006 (J)
12/8/2016			
3/28/2017			
3/29/2017	0.0004 (J)		0.0006 (J)
3/30/2017		<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	0.0005 (J)		0.0006 (J)
8/8/2017			
10/24/2017		<0.001	
10/25/2017	0.0004 (J)		0.0005 (J)
11/15/2017			
2/27/2018		<0.001	
2/28/2018	0.00049 (J)		<0.01
7/11/2018	0.0005 (J)	<0.001	<0.01
11/6/2018		<0.001	
11/7/2018	<0.001 (J)		<0.001 (J)
8/27/2019		<0.001	
8/28/2019	0.00053 (J)		
8/29/2019			0.00084 (J)
9/17/2019			
10/15/2019			
10/16/2019	0.00053 (J)		
10/17/2019		<0.001	0.00062 (J)
10/18/2019			
3/2/2020			
3/3/2020	0.0006 (J)	<0.001	
3/4/2020			0.0023 (J)
8/11/2020	0.00059 (J)	<0.001	
8/12/2020			
8/13/2020			0.0016 (J)
8/14/2020			
9/22/2020	0.0005 (J)		0.00055 (J)
9/23/2020		<0.001	
9/24/2020			
3/1/2021			
3/2/2021	0.00056 (J)	<0.001	0.0014 (J)
3/3/2021			
3/4/2021			
9/8/2021			
9/9/2021	0.00056 (J)	<0.001	
9/10/2021			0.00052 (J)

# Time Series

Constituent: Thallium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-2	DGWC-20
9/13/2021			
1/18/2022			
1/20/2022		<0.001	
1/21/2022			<0.01
1/24/2022			
1/25/2022	0.00057 (J)		
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022	0.00056 (J)		
9/15/2022			0.001 (J)
9/20/2022		<0.001	
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	0.00059 (J)	<0.001	
2/7/2023			0.0018 (J)

# Time Series

Constituent: Thallium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-21	DGWC-22	DGWC-23	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		
9/2/2016	<0.001	<0.001							
9/7/2016				<0.001					
12/6/2016								<0.001	<0.001
12/8/2016	<0.001	<0.001			<0.001	<0.001	<0.001		
3/28/2017				<0.001				0.0002 (J)	
3/29/2017		6E-05 (J)							0.0002 (J)
3/30/2017	<0.001		<0.001				9E-05 (J)		
3/31/2017					9E-05 (J)	0.0002 (J)			
5/12/2017			<0.001	<0.001					
6/15/2017			<0.001	<0.001					
7/11/2017				<0.001				<0.001	0.0001 (J)
7/12/2017	<0.001		<0.001						
7/13/2017		7E-05 (J)			9E-05 (J)	0.0002 (J)	8E-05 (J)		
10/24/2017				<0.001					0.0003 (J)
10/25/2017	<0.001	7E-05 (J)			9E-05 (J)			<0.001	
10/26/2017			<0.001			0.0003 (J)	9E-05 (J)		
2/27/2018				<0.001				<0.001	0.00033 (J)
2/28/2018	<0.001	<0.001			<0.001				
3/1/2018			<0.001			0.00032 (J)			
3/2/2018							<0.001		
7/11/2018	<0.001				<0.001				
7/12/2018		<0.001	<0.001			0.00031 (J)	<0.001		
11/6/2018				<0.001				<0.001	<0.001 (J)
11/7/2018	<0.001	<0.001			<0.001	<0.001 (J)	<0.001		
11/8/2018			<0.001 (J)						
8/27/2019				<0.001				<0.001	
8/28/2019					6.9E-05 (J)				0.00022 (J)
8/29/2019	<0.001	6.4E-05 (J)	<0.001			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				<0.001	0.00025 (J)			
10/18/2019		<0.001	<0.001				<0.001		
3/2/2020				<0.001				6.2E-05 (J)	
3/3/2020	<0.001	7E-05 (J)							0.00023 (J)
3/4/2020			<0.001		<0.001	0.00021 (J)	6.8E-05 (J)		
8/11/2020									
8/12/2020				<0.001		0.00018 (J)		<0.001	0.00023 (J)
8/13/2020			<0.001		<0.001		<0.001		
8/14/2020	<0.001	<0.001							
9/22/2020				<0.001	<0.001			<0.001	
9/23/2020						0.00026 (J)	<0.001		0.0002 (J)
9/24/2020	<0.001	<0.001	<0.001						
3/1/2021				<0.001					
3/2/2021								<0.001	0.00019 (J)
3/3/2021	<0.001	<0.001	<0.001		<0.001	0.00023 (J)	<0.001		
9/9/2021	<0.001		<0.001						
9/10/2021		<0.001		<0.001		0.00036 (J)	<0.001	<0.001	
9/13/2021					<0.001				0.00019 (J)
1/20/2022	<0.001	<0.001	<0.001		<0.001				



# Time Series

Constituent: Thallium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8
1/21/2022						0.00028 (J)			
1/24/2022				<0.001			<0.001	<0.001	
1/25/2022									0.00019 (J)
1/26/2022									
9/13/2022					<0.001	0.00021 (J)	<0.001		
9/14/2022								<0.001	
9/15/2022	<0.001								<0.001
9/16/2022		<0.001							
9/19/2022				<0.001					
9/20/2022			<0.001						
2/1/2023					0.00028 (J)				
2/3/2023				<0.001		0.00022 (J)	<0.001		
2/6/2023		<0.001	<0.001						
2/7/2023	<0.001							<0.001	<0.001

# Time Series

Constituent: Thallium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-9
8/30/2016	<0.005
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	0.0006 (J)
12/8/2016	
3/28/2017	0.0007 (J)
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	0.0007 (J)
7/12/2017	
7/13/2017	
10/24/2017	0.0006 (J)
10/25/2017	
10/26/2017	
2/27/2018	0.00038 (J)
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	<0.005
7/12/2018	
11/6/2018	<0.005
11/7/2018	
11/8/2018	
8/27/2019	0.00053 (J)
8/28/2019	
8/29/2019	
10/15/2019	
10/16/2019	
10/17/2019	0.00076 (J)
10/18/2019	
3/2/2020	
3/3/2020	0.00044 (J)
3/4/2020	
8/11/2020	<0.005
8/12/2020	
8/13/2020	
8/14/2020	
9/22/2020	0.00043 (J)
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	<0.005
3/3/2021	
9/9/2021	
9/10/2021	0.0004 (J)
9/13/2021	
1/20/2022	

# Time Series

Constituent: Thallium (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

DGWC-9

1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	<0.005
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	<0.005
9/20/2022	
2/1/2023	
2/3/2023	<0.005
2/6/2023	
2/7/2023	

# Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D
9/25/2020	724								
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	660							305	
4/15/2021									
9/10/2021			474					284	
9/13/2021	636	343			296	567			
9/14/2021				776			576		586
1/20/2022								309	
1/21/2022	638								
1/24/2022				806		552	502		566
1/25/2022					295				
1/26/2022		290							
1/27/2022			459						
6/6/2022									
9/8/2022	606								
9/13/2022				832					
9/14/2022						582			470
9/15/2022			437				540		
9/16/2022		365			240				
9/19/2022									
9/20/2022								327	
2/2/2023	595		466						
2/3/2023		313		842					
2/6/2023						608		416	
2/7/2023					246		563		489

# Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-122D	B-56
9/25/2020			
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			
4/15/2021	982		
9/10/2021			
9/13/2021			321
9/14/2021	882		
1/20/2022	816		
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022			344
6/6/2022		307	
9/8/2022			
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022			353
9/19/2022	867		
9/20/2022			
2/2/2023			
2/3/2023	803		
2/6/2023		392	
2/7/2023			379

# Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93
3/28/2017									
5/11/2017									
6/15/2017									
7/12/2017									
10/24/2017									
11/15/2017									
3/8/2018									
7/12/2018									
11/7/2018									
1/28/2019		204							
1/30/2019	287		601						
3/13/2019									
10/16/2019									
10/21/2019	180		617		458	214			
10/22/2019		178							
10/24/2019				106					
3/9/2020									
9/22/2020									
9/24/2020	170			124					
9/25/2020						244	624		
9/28/2020					454				686
3/4/2021				128		234			
3/5/2021							798		
3/9/2021									790
3/12/2021	172								
9/9/2021	174								
9/13/2021							572		
9/14/2021		170	490	94	536				
9/15/2021								612	812
9/16/2021						223			
1/20/2022	187	177		129					
1/21/2022						236			
1/25/2022			482		668				
1/26/2022								572	766
1/27/2022							654		
1/28/2022									
9/8/2022	160								
9/12/2022								696	884
9/13/2022				113		210			
9/14/2022		206							
9/16/2022			498		468		564		
1/31/2023								688	898
2/1/2023									
2/2/2023	197	198							
2/3/2023						214			
2/6/2023				92					
2/7/2023			497		611		685		

# Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-97	B-98	DGWA-53 (bg)
3/28/2017			202
5/11/2017			241
6/15/2017			251
7/12/2017			218
10/24/2017			671 (O)
11/15/2017			241
3/8/2018			213
7/12/2018			198
11/7/2018			200
1/28/2019			
1/30/2019			
3/13/2019			201
10/16/2019			126
10/21/2019			
10/22/2019			
10/24/2019			
3/9/2020			171
9/22/2020			142
9/24/2020			
9/25/2020			
9/28/2020			
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021			124
9/9/2021			131
9/13/2021			
9/14/2021			
9/15/2021	892	524	
9/16/2021			
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	930	139	
1/27/2022			
1/28/2022			155
9/8/2022			129
9/12/2022			
9/13/2022	1050	267	
9/14/2022			
9/16/2022			
1/31/2023		147	
2/1/2023	1170		116
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			

# Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17
8/31/2016			525	307			106		
9/1/2016					568				
9/2/2016									
9/6/2016						296		304	
9/7/2016									353
12/6/2016			595	358			138		
12/7/2016					559	270		287	
12/8/2016									408
3/28/2017	39	90							
3/29/2017			525	300	550		102		
3/30/2017						287		312	338
5/11/2017									
5/12/2017		92							
5/15/2017	88								
6/15/2017	65								
6/16/2017		100							
7/11/2017	25	59							
7/12/2017			598	382	594	312	118	490 (O)	417
8/8/2017	53								
10/24/2017	49	117	353	342					
10/25/2017					571		88	290	343
11/15/2017		90	582			325			
2/27/2018	43	79	542	393	582		99		
2/28/2018						84		313	364
7/11/2018					593		119	320	393
11/6/2018	65	85	512	412					
11/7/2018					504	314	113	325	408
3/12/2019	43	74	436	433	465				
3/13/2019						656	280		802
3/14/2019								340	
10/15/2019	70	89	447	461	472				
10/16/2019						296	104		
10/17/2019								319	
10/18/2019									403
3/2/2020	52	67		458	338				
3/3/2020			382			263	123	323	
3/4/2020									414
9/22/2020	46	74		481	338		105		
9/23/2020						278		317	
9/24/2020			283						411
3/1/2021	25	62							
3/2/2021				456		256	105	272	
3/3/2021					325				384
3/4/2021			430						
9/8/2021		75							
9/9/2021	53			433	275	246	99	292	
9/10/2021			474						
9/13/2021									424
1/18/2022	54	76							
1/20/2022									
1/21/2022									
1/24/2022								294	426





# Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-2	DGWC-20
8/31/2016			
9/1/2016	396		
9/2/2016			1100
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016	400		930
12/8/2016			
3/28/2017			
3/29/2017	390		923
3/30/2017		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	360		956
8/8/2017			
10/24/2017		523	
10/25/2017	423		854
11/15/2017			
2/27/2018		401	
2/28/2018	440		888
7/11/2018	457	334	826
11/6/2018		334	
11/7/2018	461		834
3/12/2019		297	
3/13/2019	113		639
3/14/2019			
10/15/2019			
10/16/2019	500		
10/17/2019		302	751
10/18/2019			
3/2/2020			
3/3/2020	526	277	
3/4/2020			761
9/22/2020	513		724
9/23/2020		267	
9/24/2020			
3/1/2021			
3/2/2021	513	241	742
3/3/2021			
3/4/2021			
9/8/2021			
9/9/2021	480	260	
9/10/2021			678
9/13/2021			
1/18/2022			
1/20/2022		238	
1/21/2022			702
1/24/2022			

# Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-19	DGWC-2	DGWC-20
1/25/2022	694		
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022	572		
9/15/2022			618
9/20/2022		230	
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	600	226	
2/7/2023			848





# Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-9
8/30/2016	414
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	449
12/8/2016	
3/28/2017	404
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	436
7/12/2017	
7/13/2017	
10/24/2017	599
10/25/2017	
10/26/2017	
11/15/2017	
2/27/2018	482
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	532
7/12/2018	
11/6/2018	554
11/7/2018	
11/8/2018	
3/12/2019	493
3/13/2019	
3/14/2019	
10/15/2019	
10/16/2019	
10/17/2019	550
10/18/2019	
3/2/2020	
3/3/2020	444
3/4/2020	
9/22/2020	461
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	449
3/3/2021	
9/9/2021	
9/10/2021	466
9/13/2021	
1/20/2022	
1/21/2022	
1/24/2022	
1/25/2022	

# Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/4/2023 2:43 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

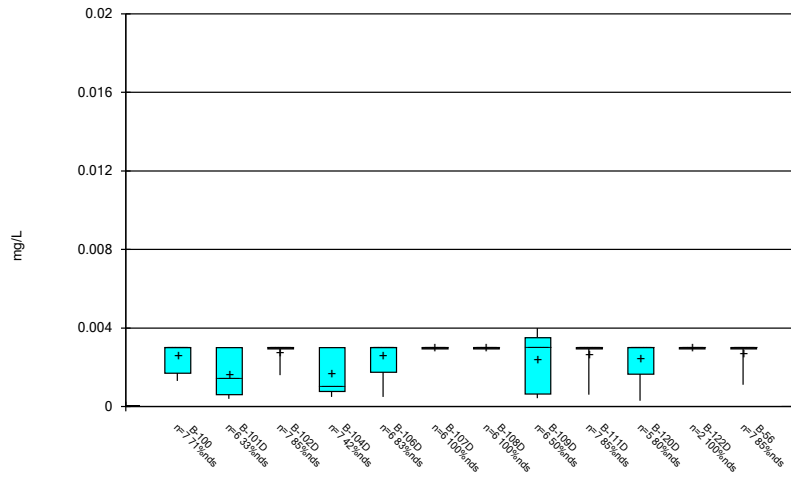
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	DGWC-9
1/26/2022	409
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	456
9/20/2022	
2/1/2023	
2/3/2023	437
2/6/2023	
2/7/2023	

FIGURE B.

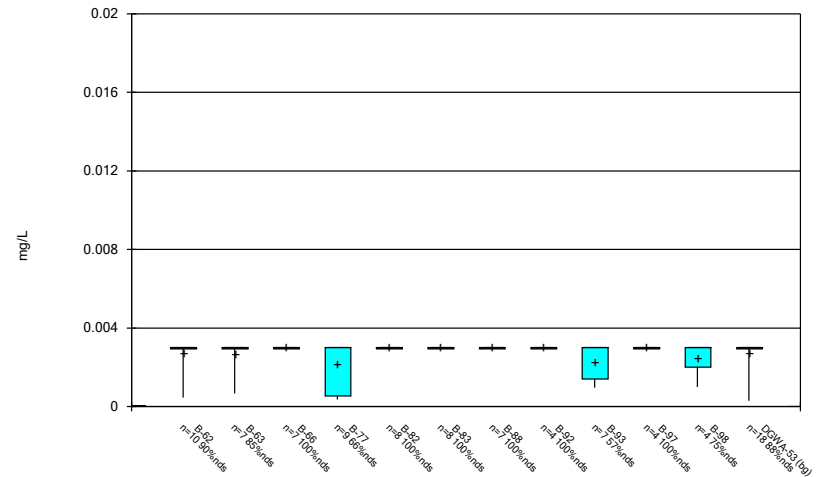


Box & Whiskers Plot



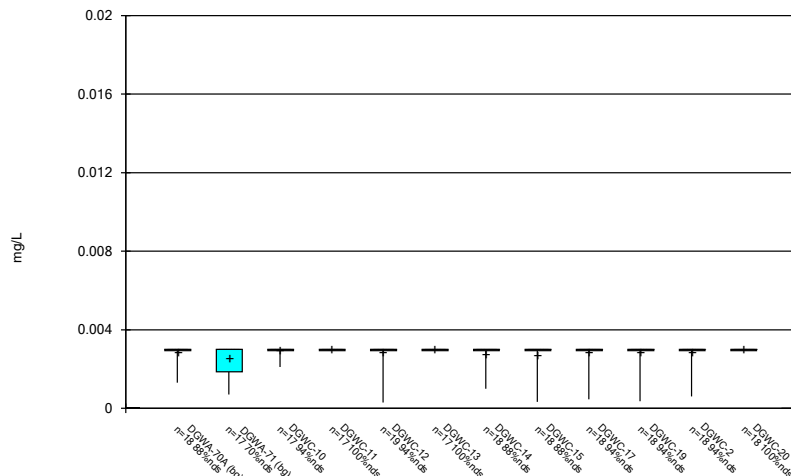
Constituent: Antimony Analysis Run 5/4/2023 2:48 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



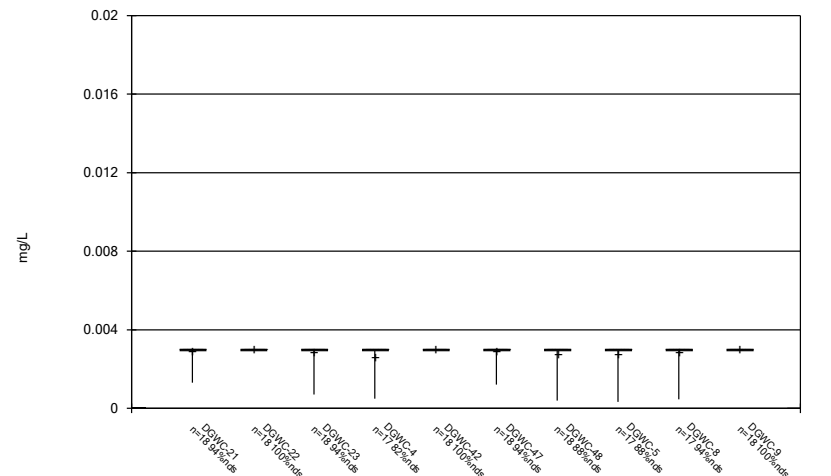
Constituent: Antimony Analysis Run 5/4/2023 2:48 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



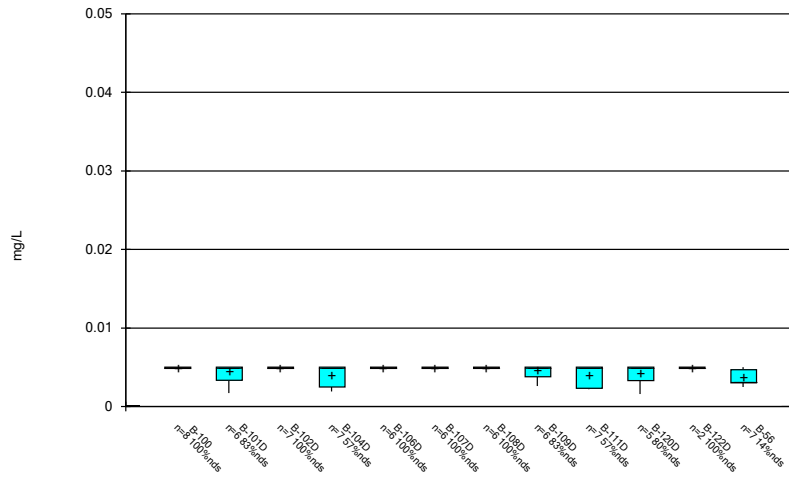
Constituent: Antimony Analysis Run 5/4/2023 2:48 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



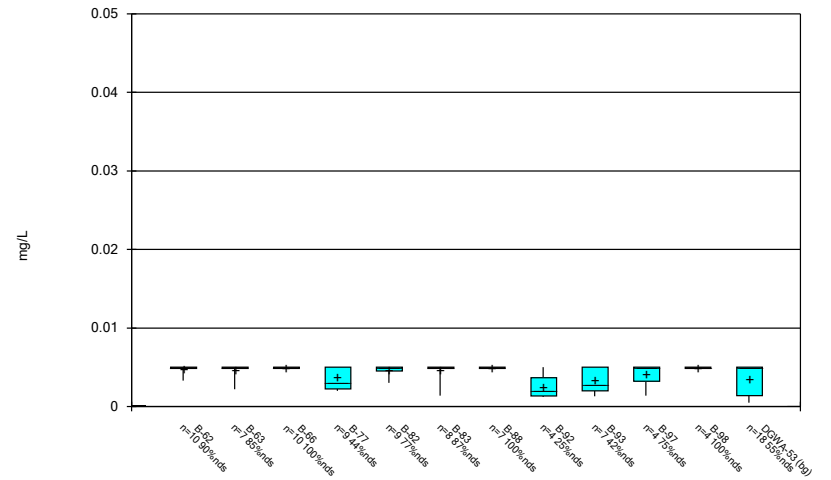
Constituent: Antimony Analysis Run 5/4/2023 2:48 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



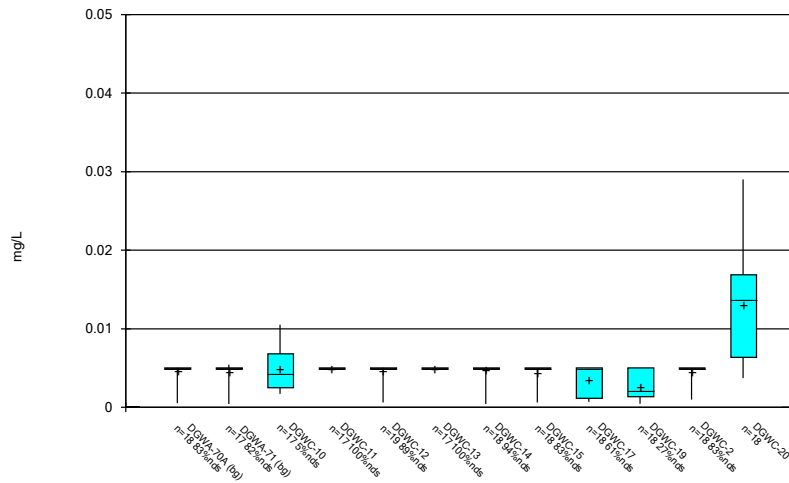
Constituent: Arsenic Analysis Run 5/4/2023 2:48 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



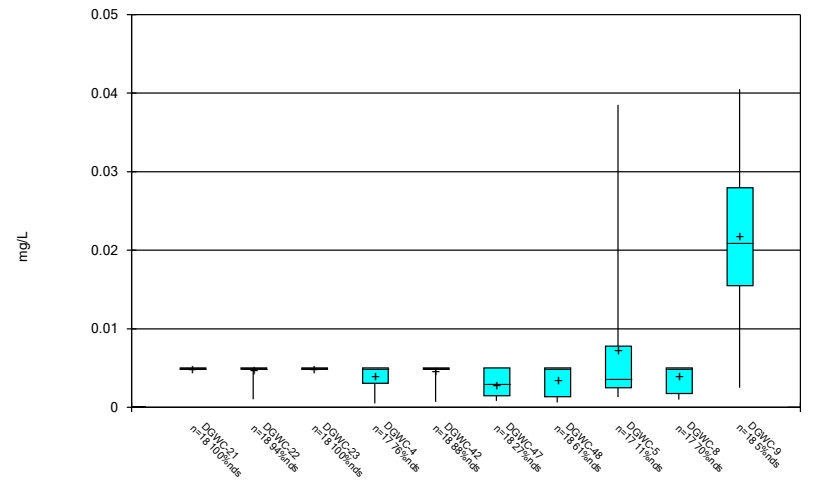
Constituent: Arsenic Analysis Run 5/4/2023 2:48 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



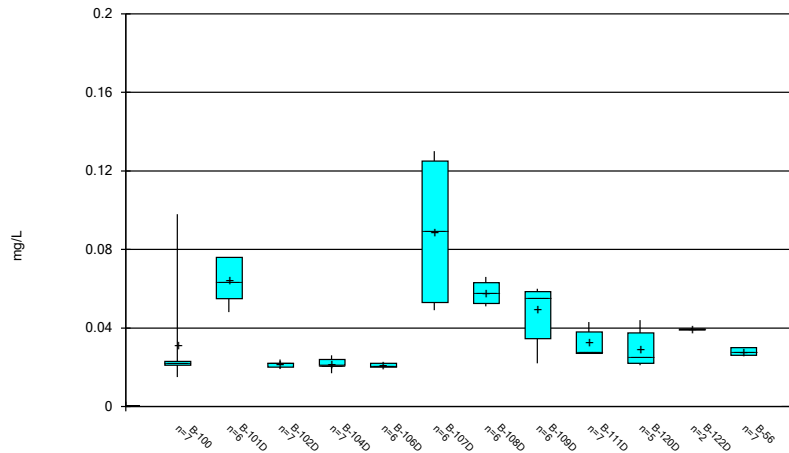
Constituent: Arsenic Analysis Run 5/4/2023 2:48 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



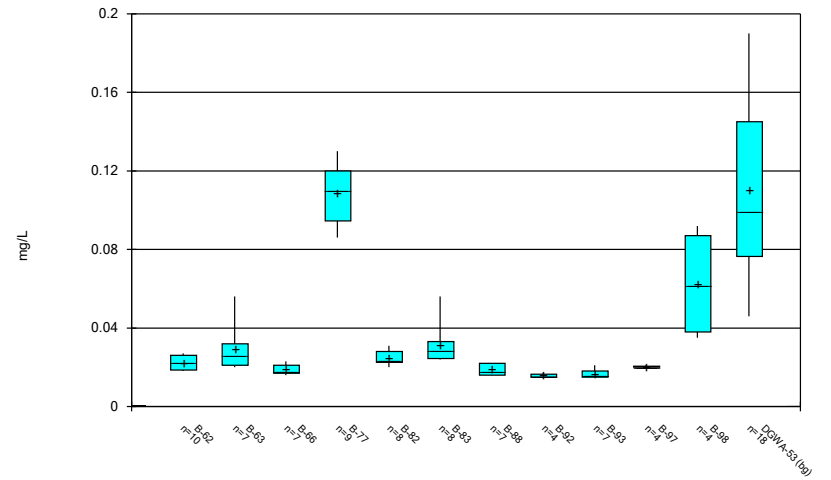
Constituent: Arsenic Analysis Run 5/4/2023 2:48 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



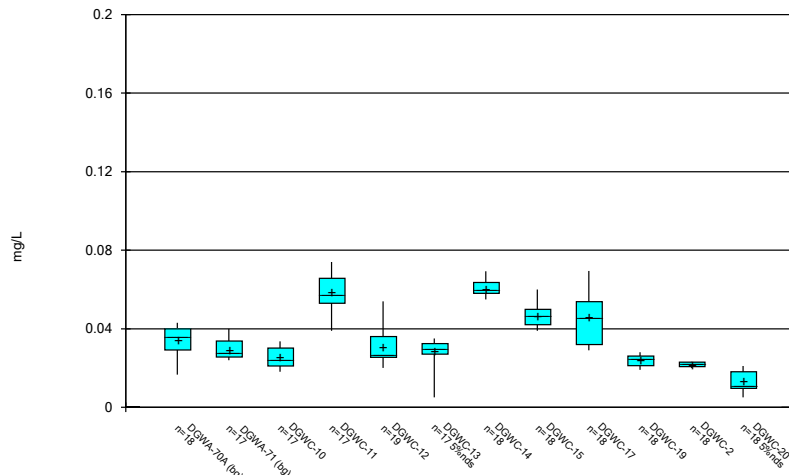
Constituent: Barium Analysis Run 5/4/2023 2:48 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



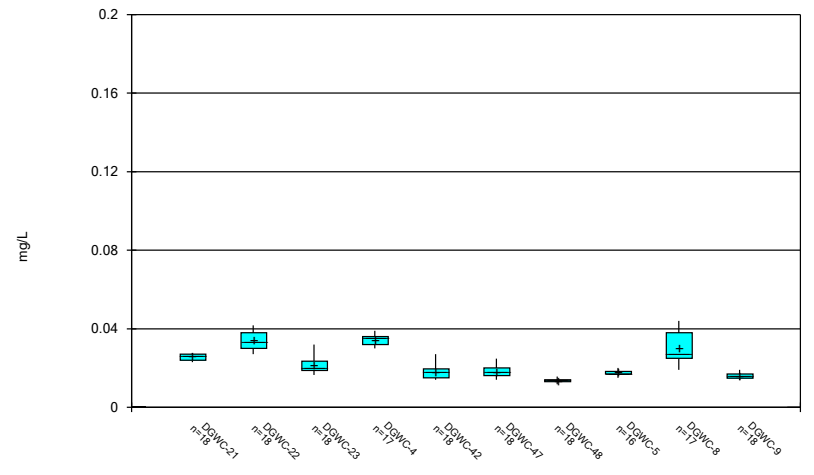
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Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



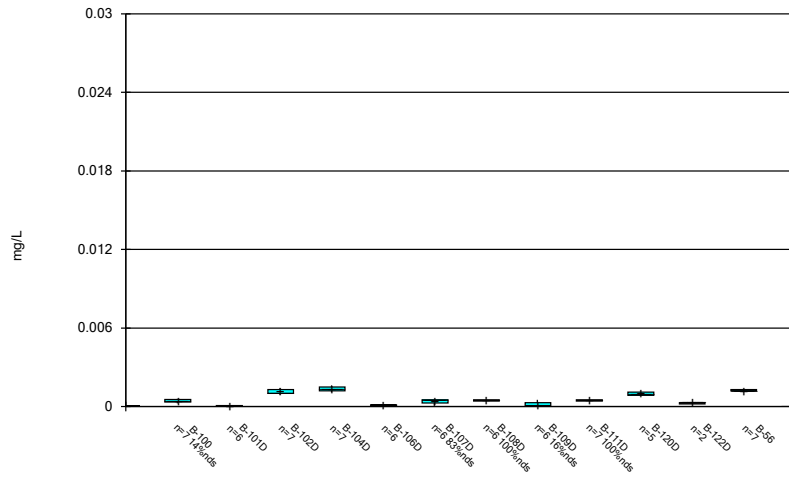
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Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



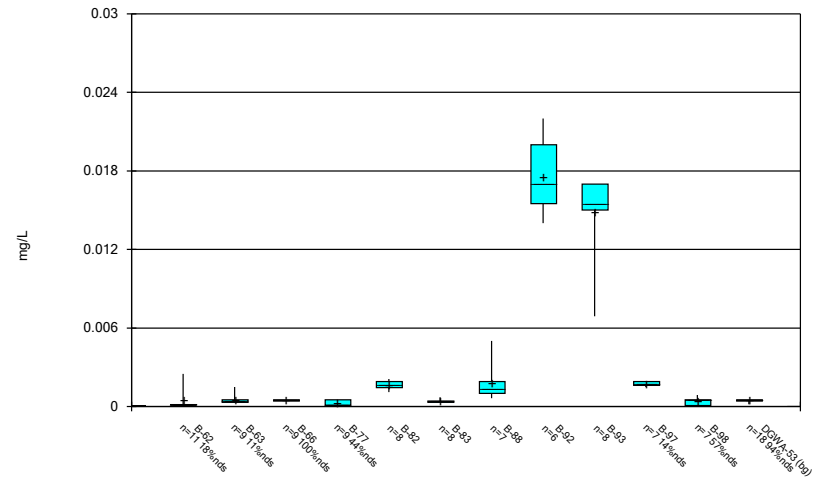
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Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



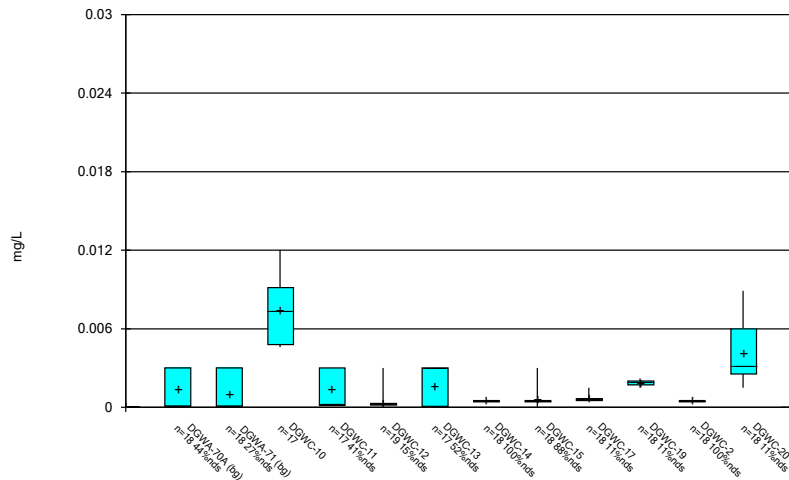
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 Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



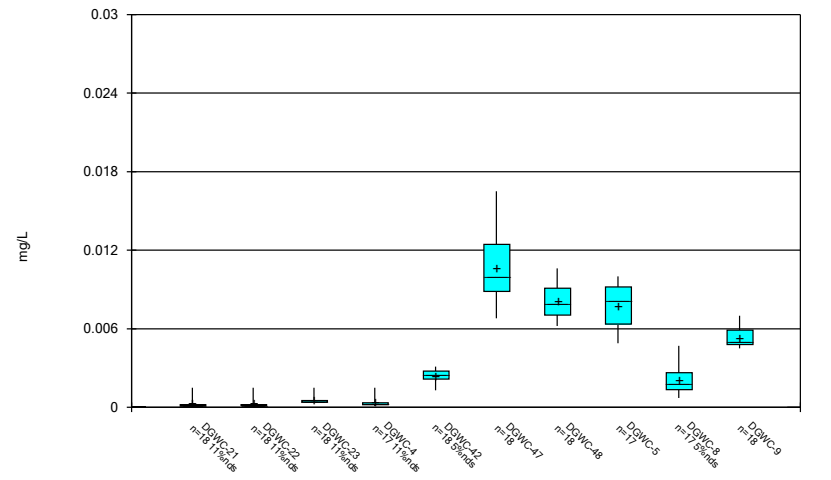
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### Box & Whiskers Plot



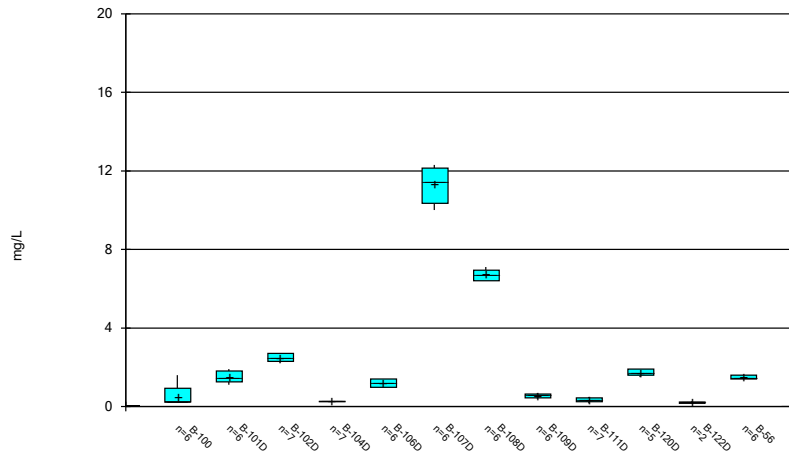
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 Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



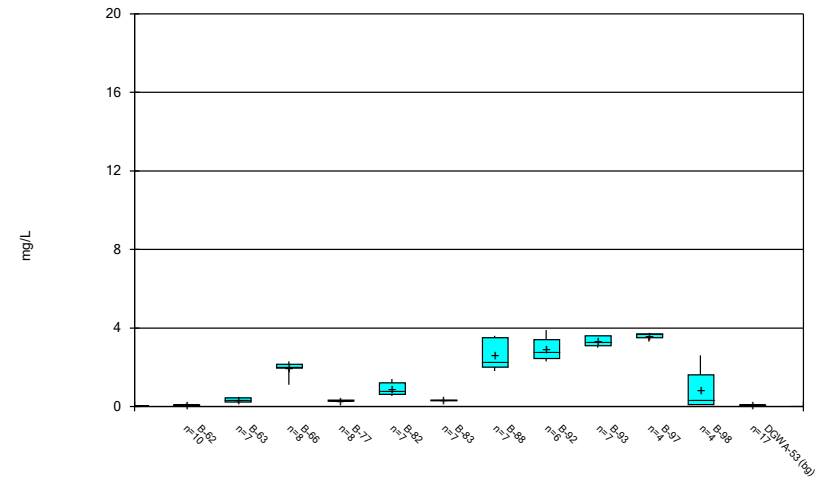
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Box & Whiskers Plot



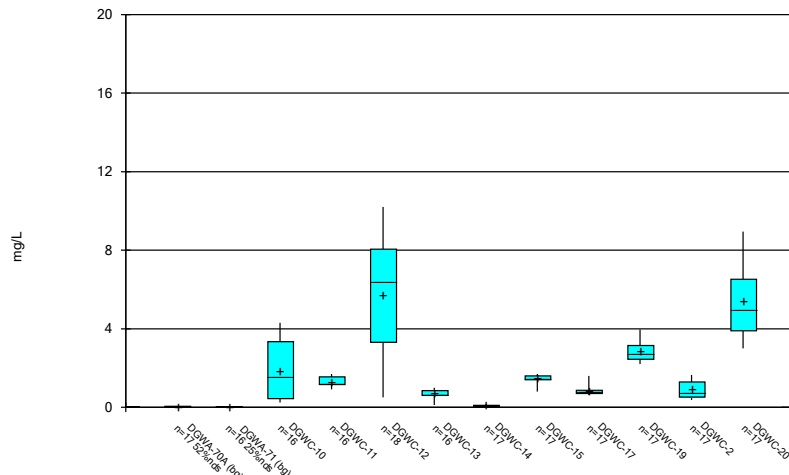
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



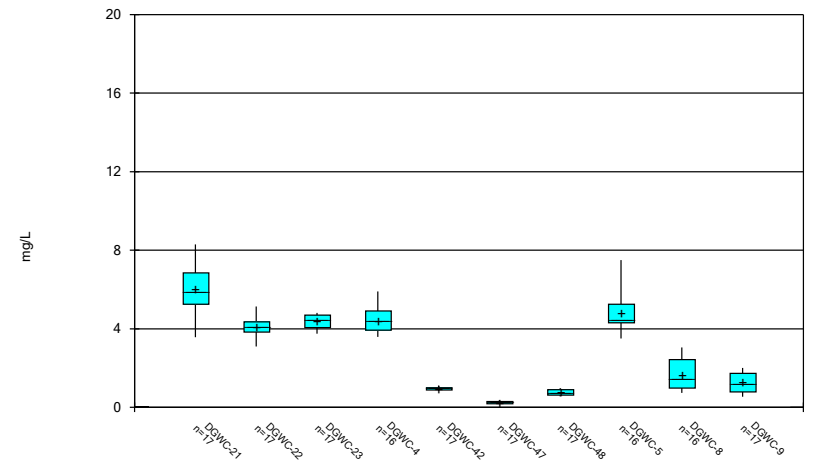
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



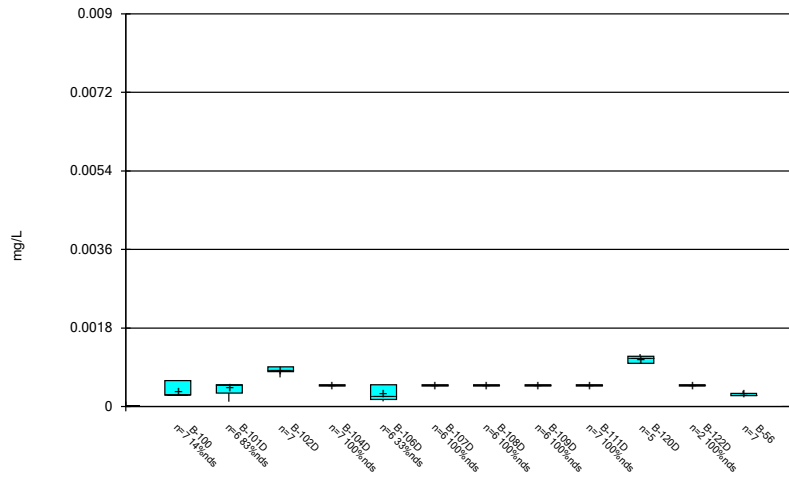
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



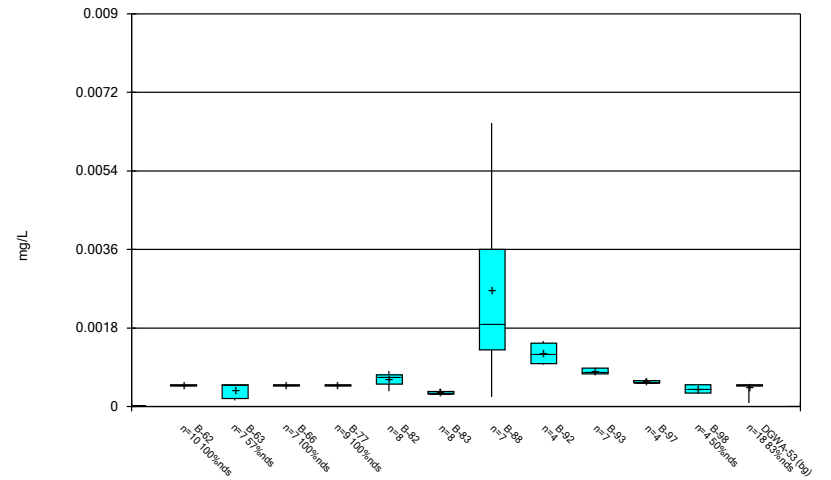
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 Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



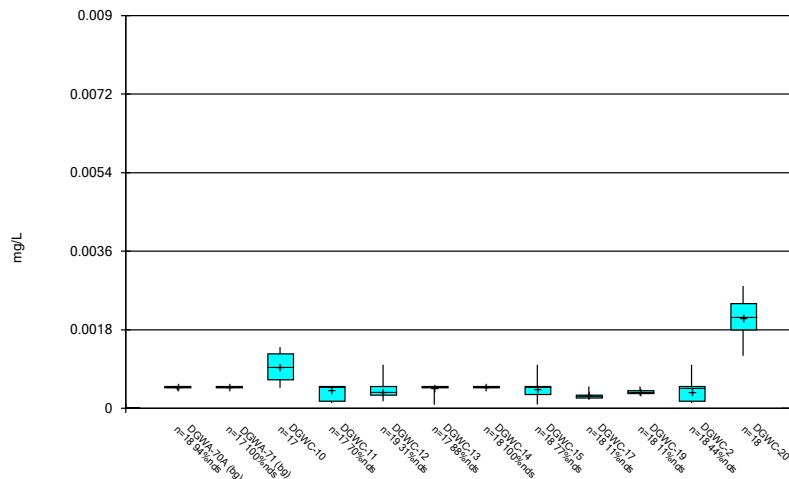
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Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



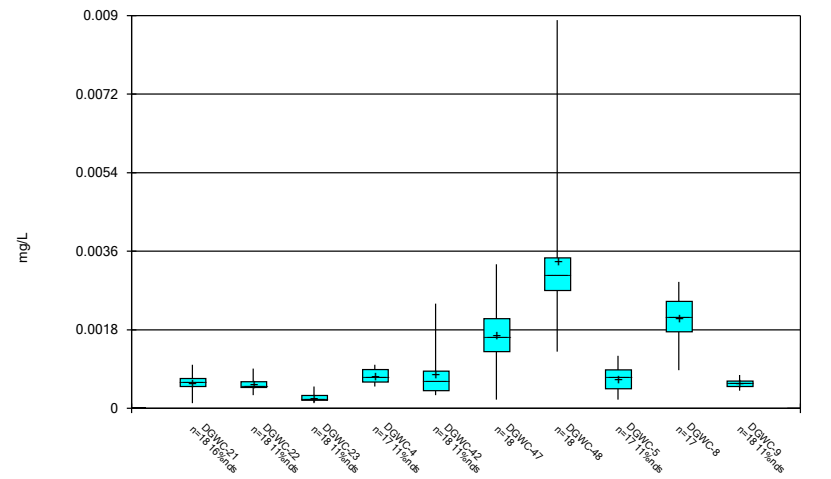
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Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



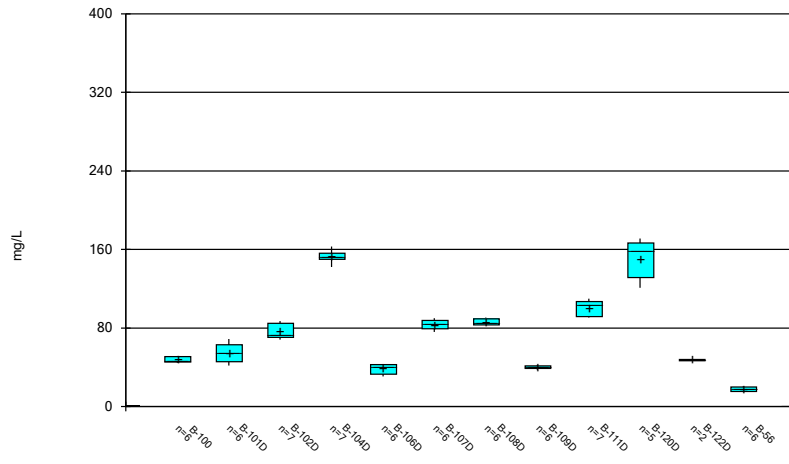
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Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



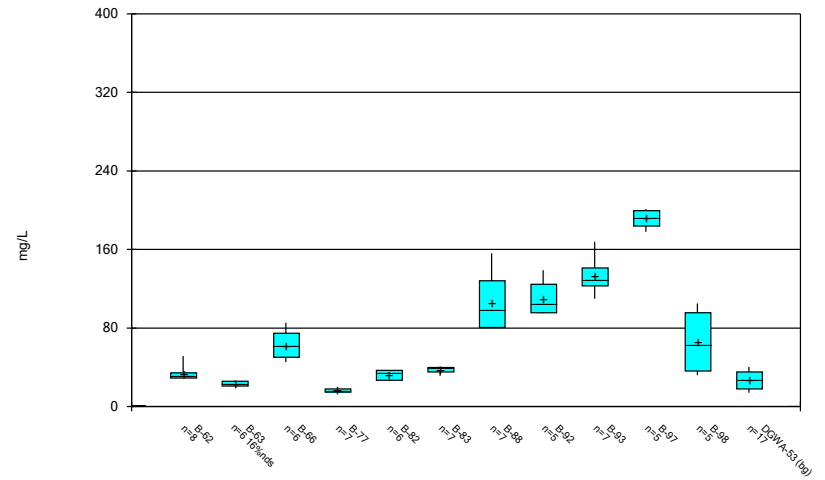
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Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



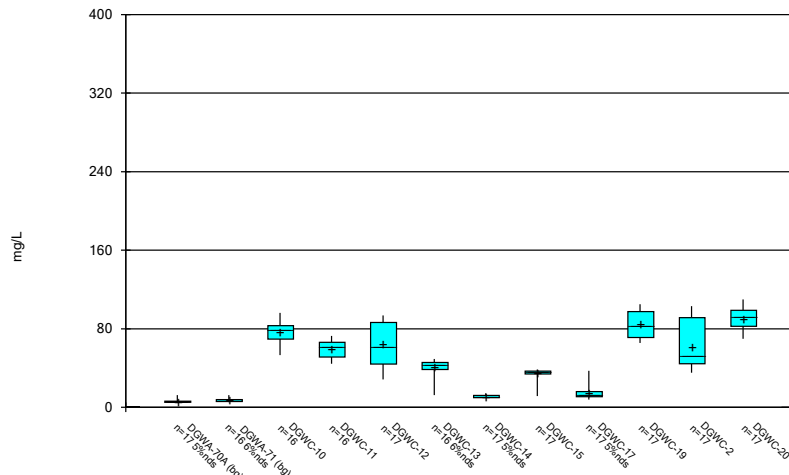
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 Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



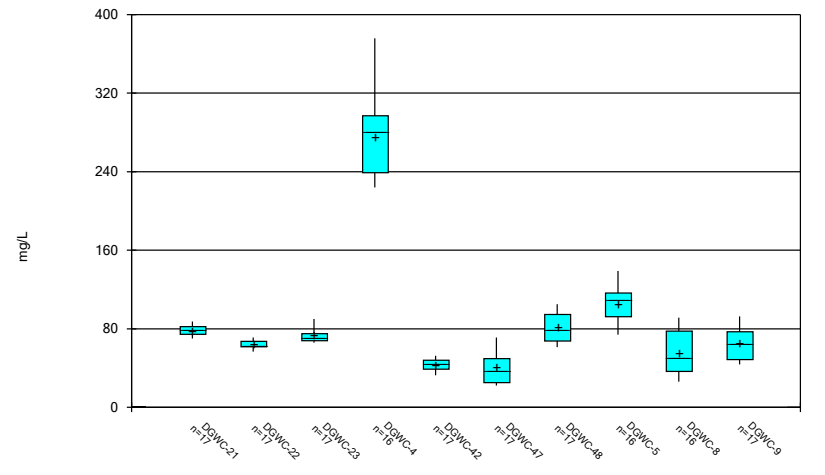
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 Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



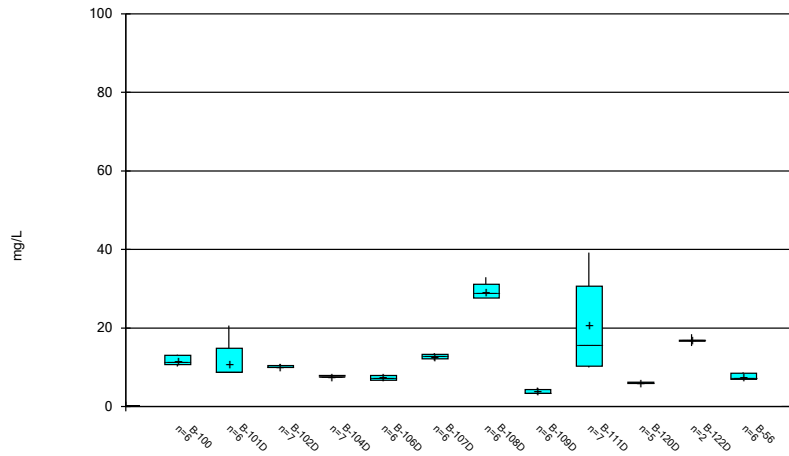
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 Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



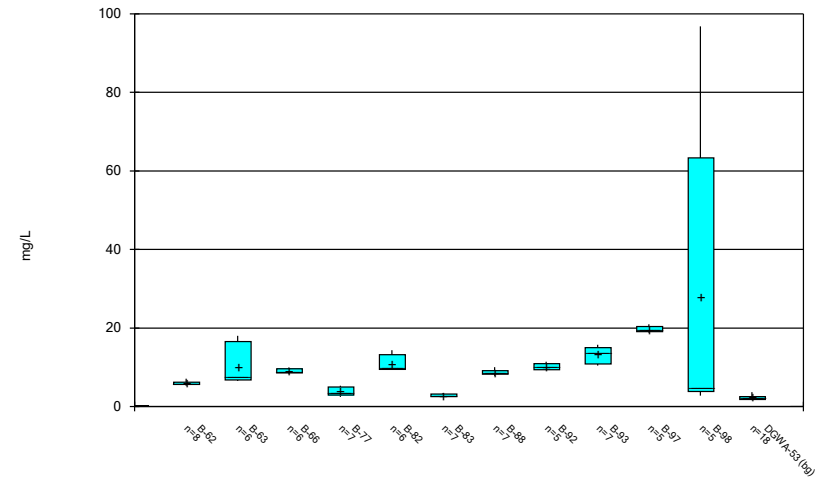
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



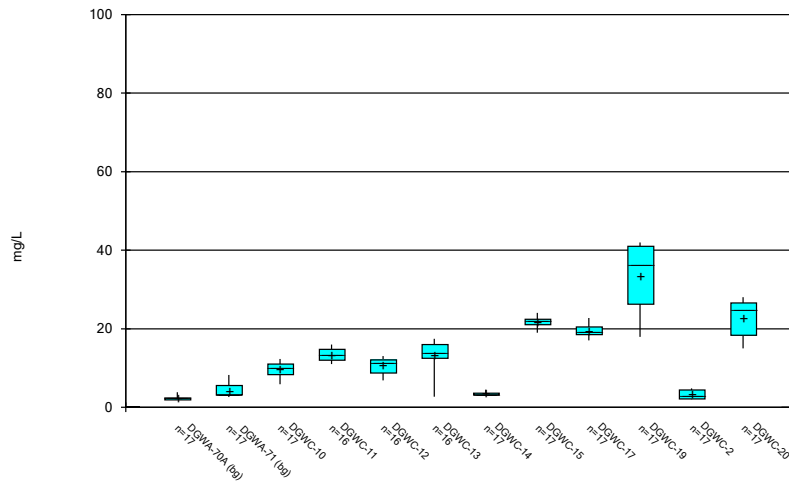
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



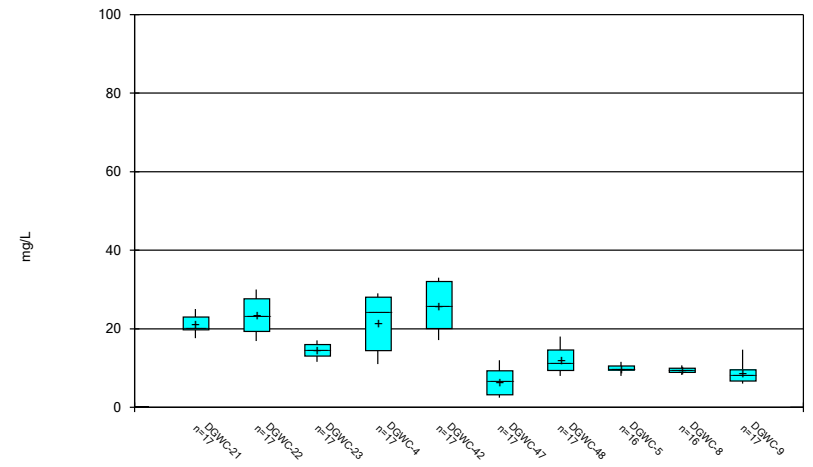
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



Constituent: Chloride Analysis Run 5/4/2023 2:48 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

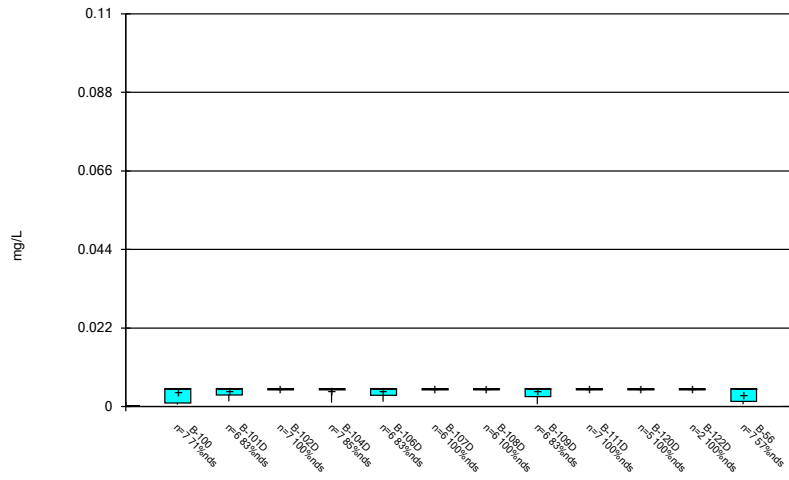
Box & Whiskers Plot



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 Plant McDonough Client: Southern Company Data: McDonough AP

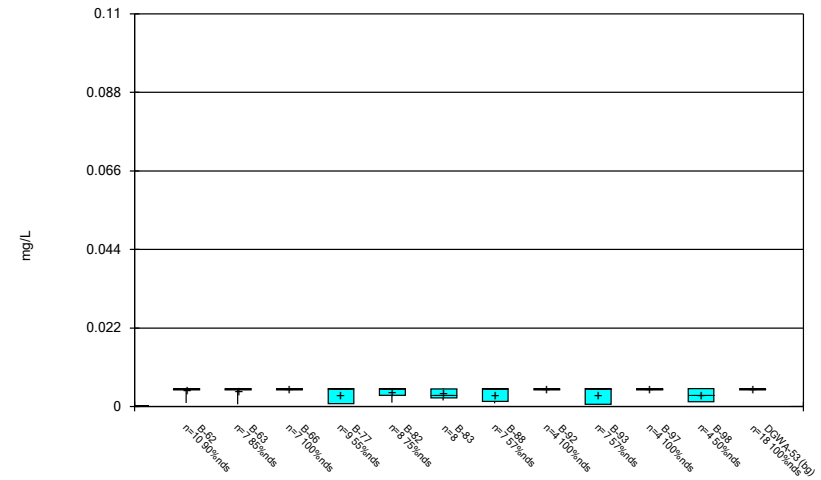


Box & Whiskers Plot



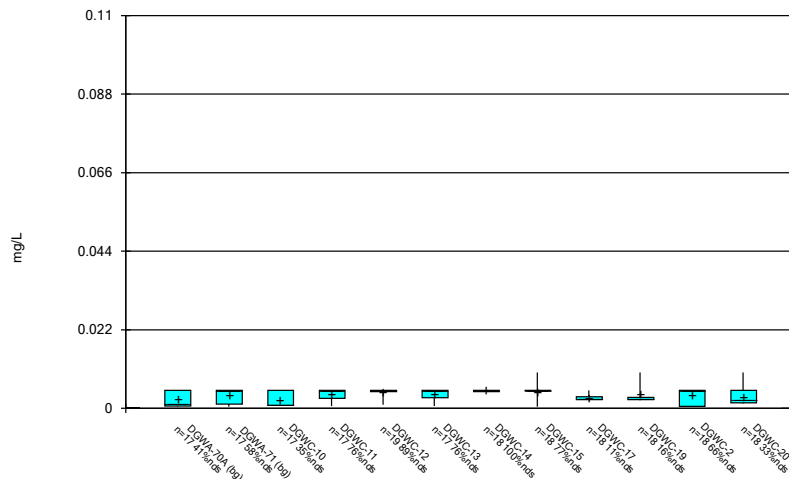
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Box & Whiskers Plot



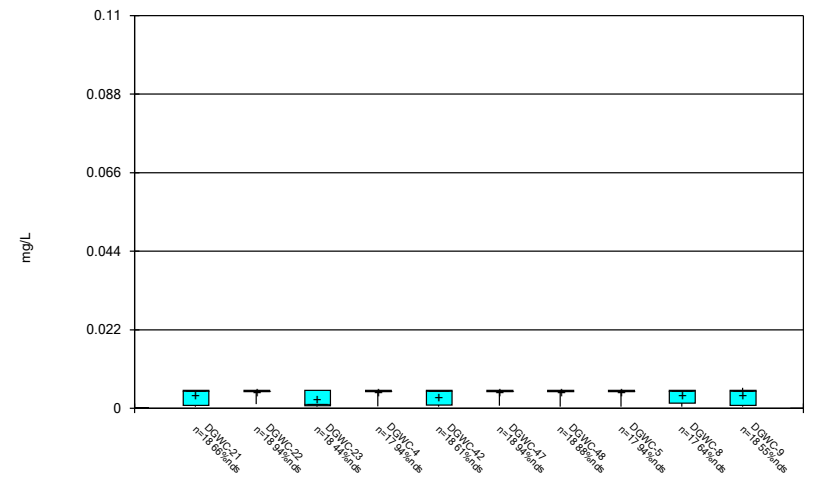
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Box & Whiskers Plot



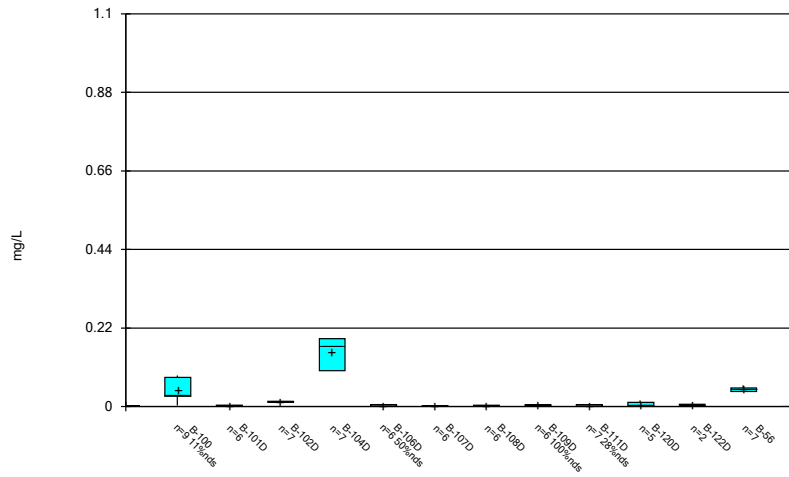
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Box & Whiskers Plot



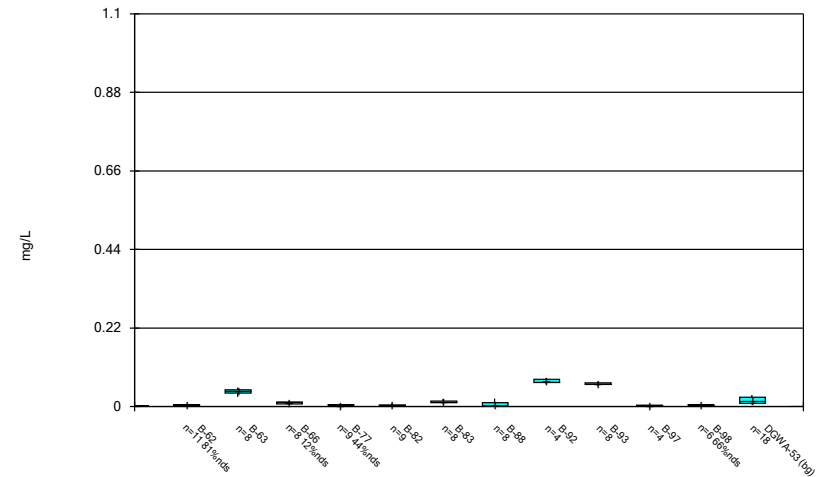
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



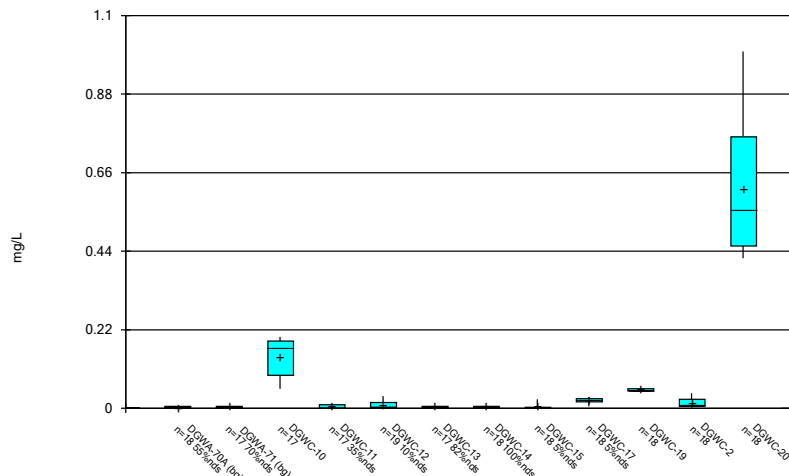
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



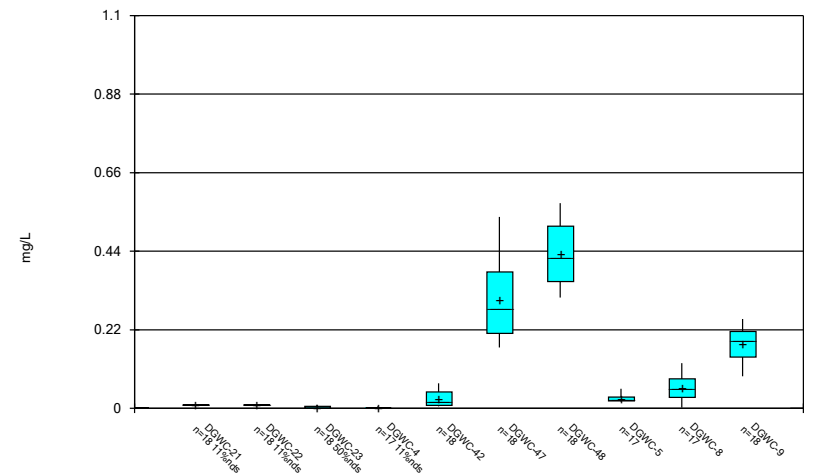
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Box & Whiskers Plot



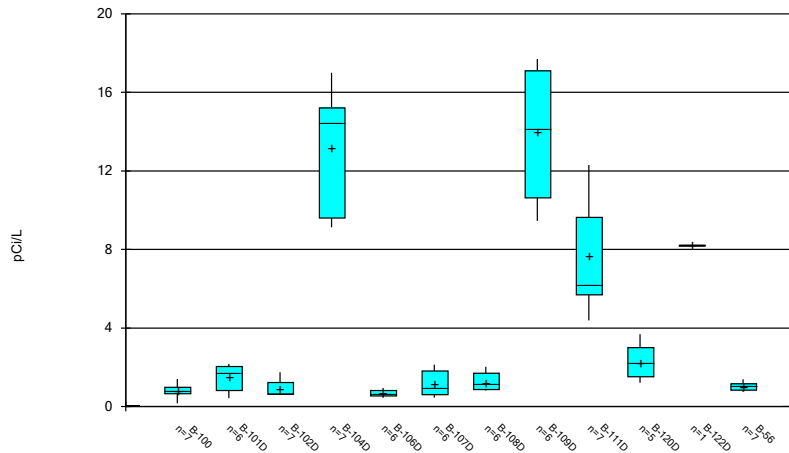
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



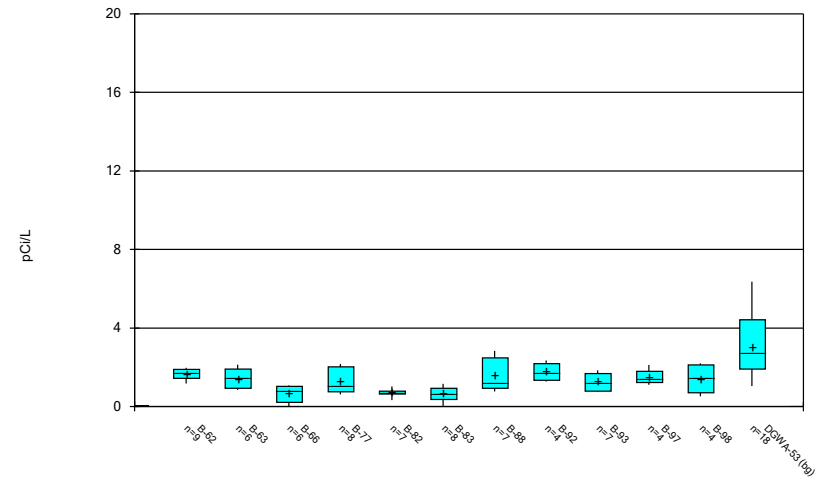
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 Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



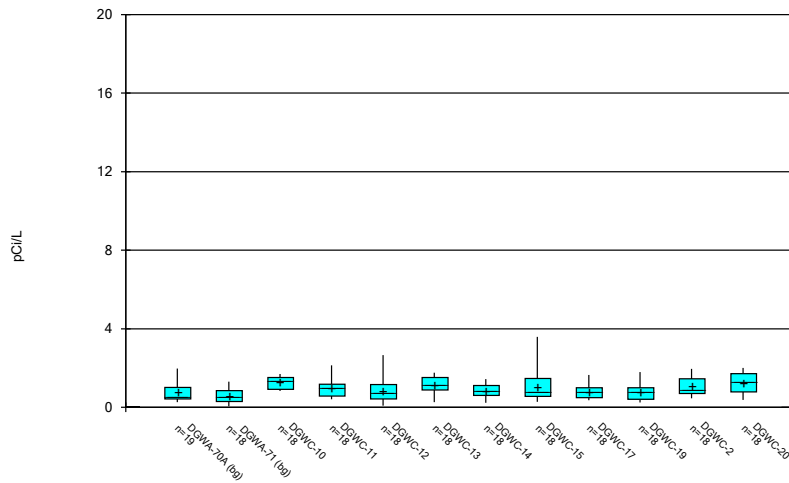
Constituent: Combined Radium 226 + 228 Analysis Run 5/4/2023 2:48 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



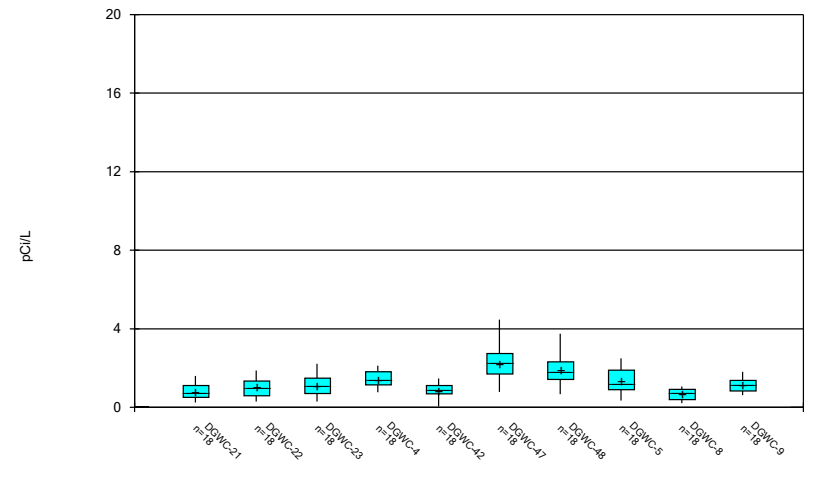
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Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



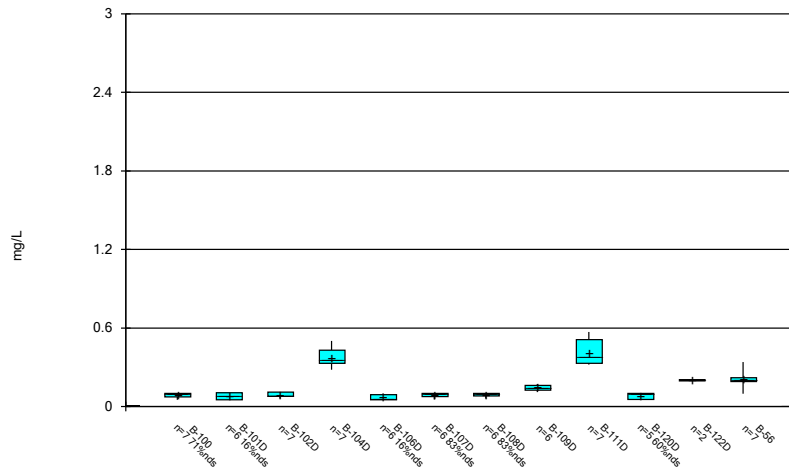
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Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



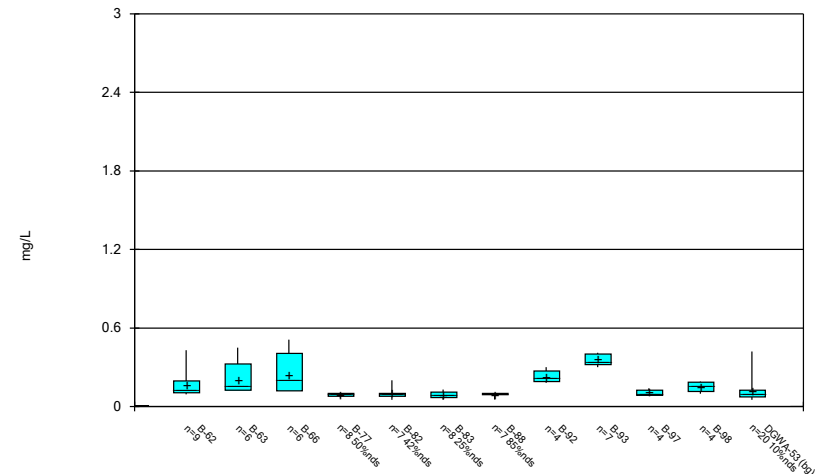
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Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



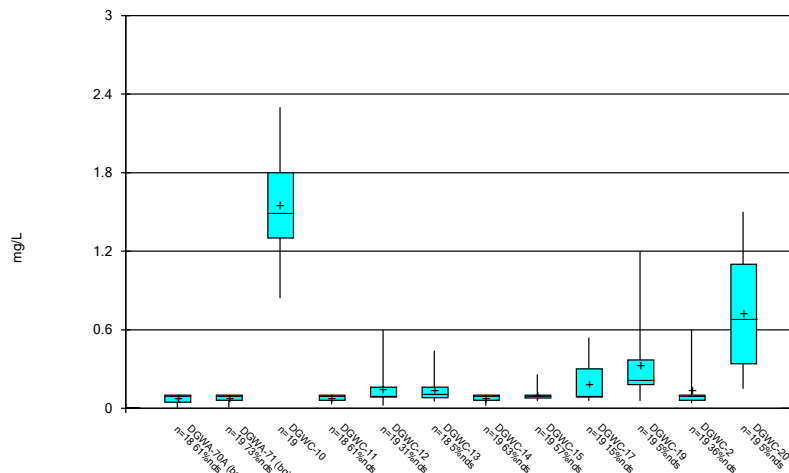
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### Box & Whiskers Plot



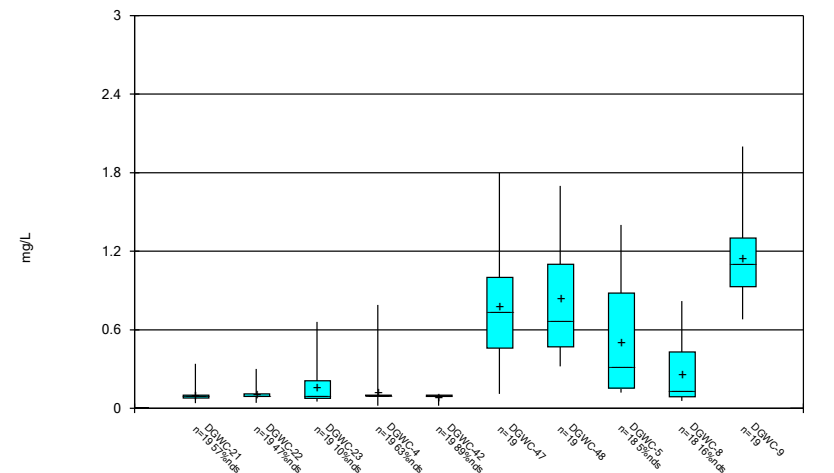
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### Box & Whiskers Plot



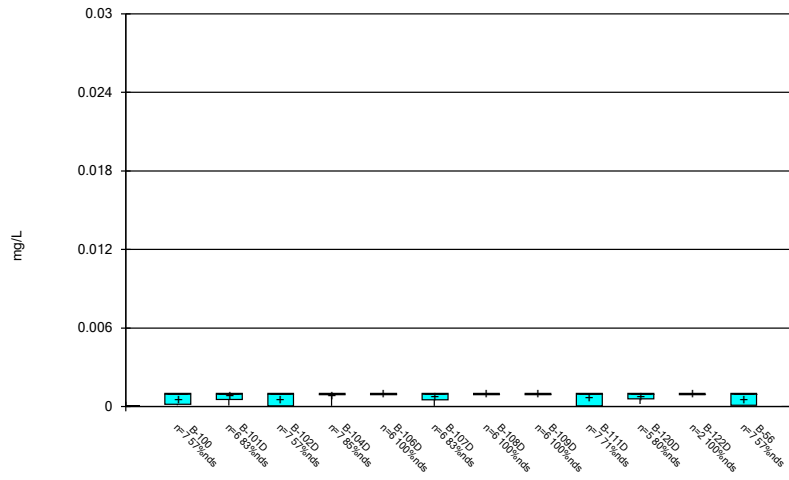
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### Box & Whiskers Plot



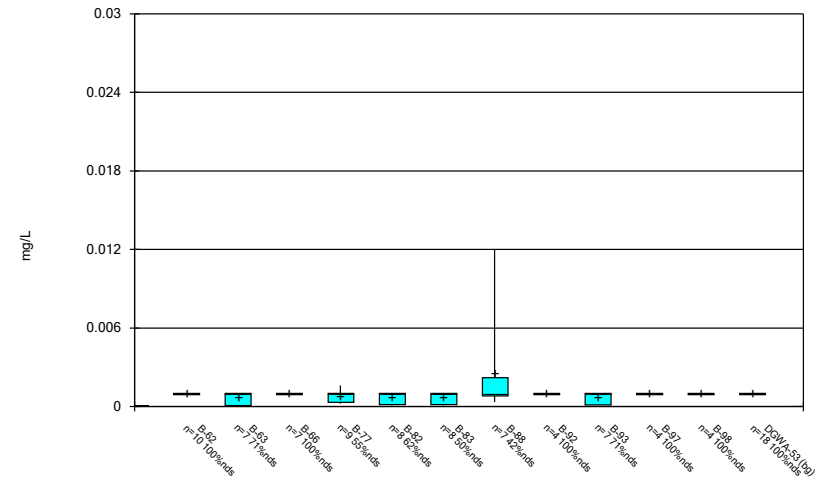
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Box & Whiskers Plot



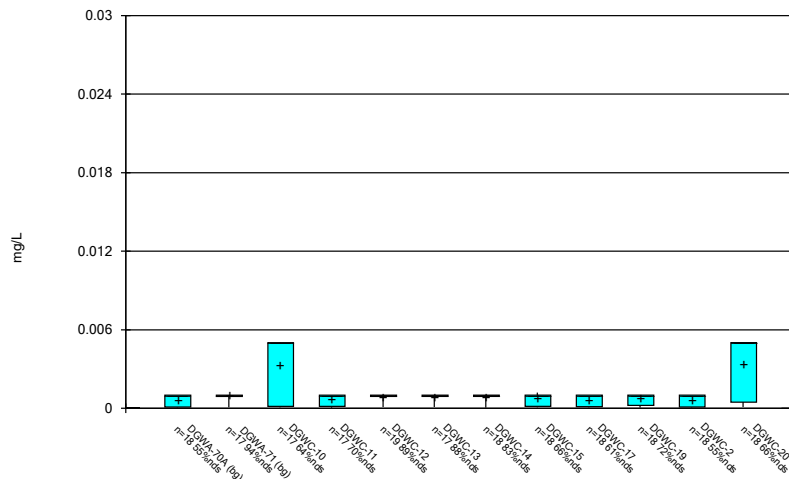
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Box & Whiskers Plot



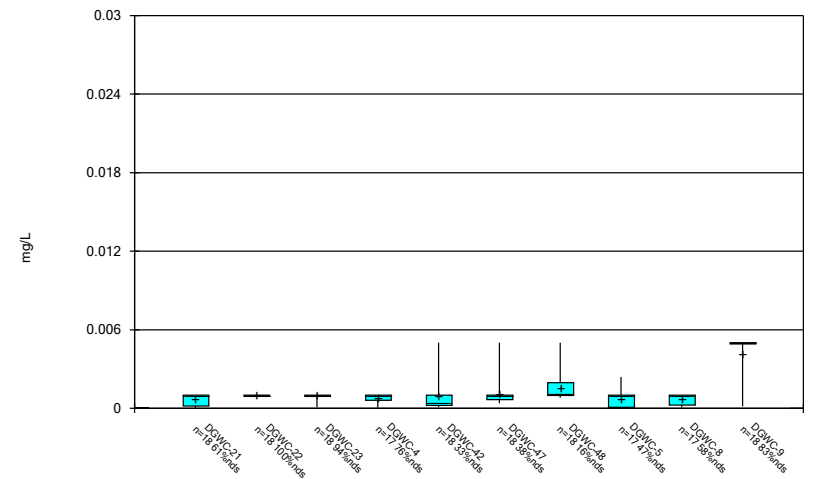
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Box & Whiskers Plot



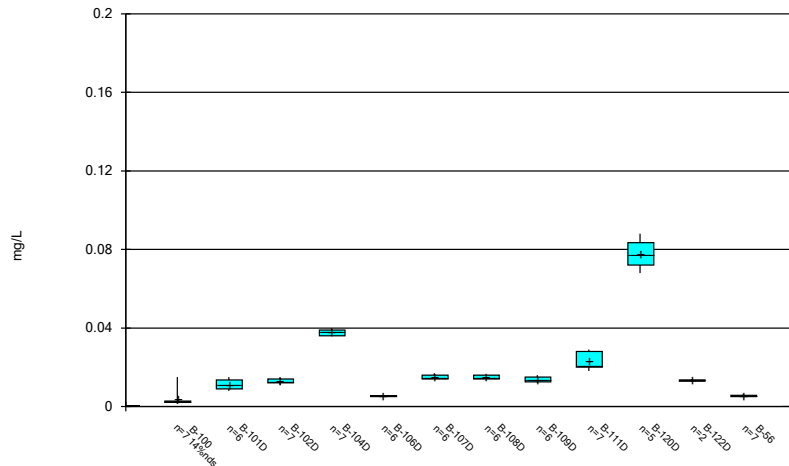
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Box & Whiskers Plot



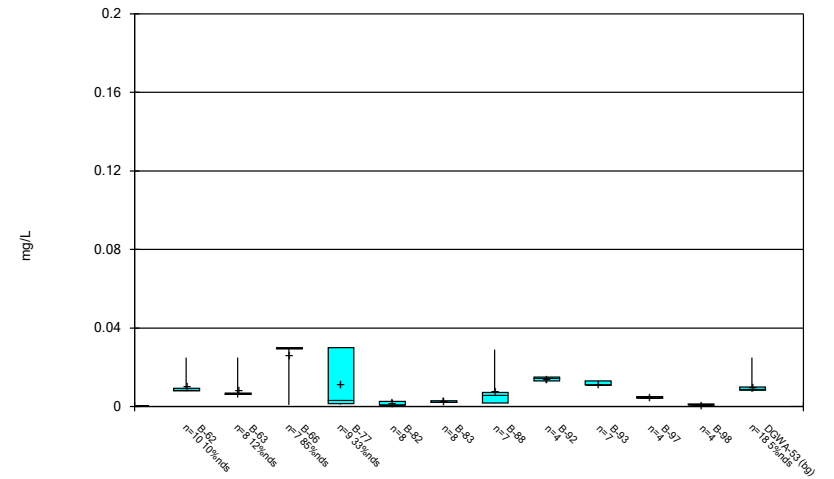
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 Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



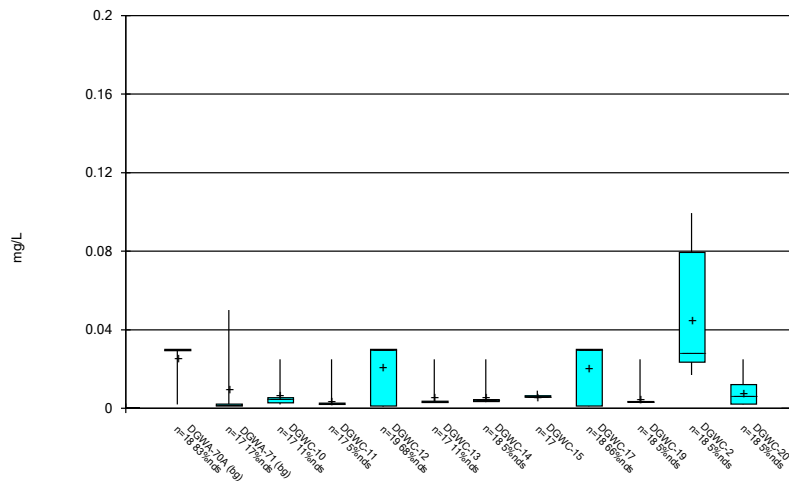
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Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



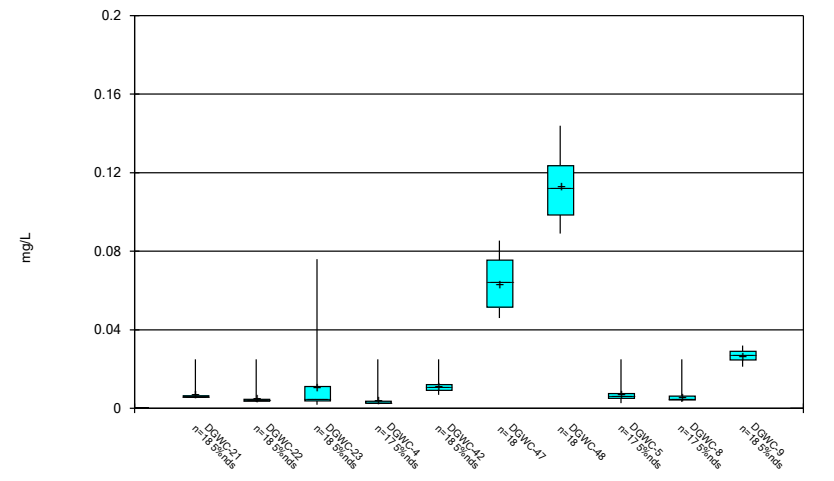
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Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



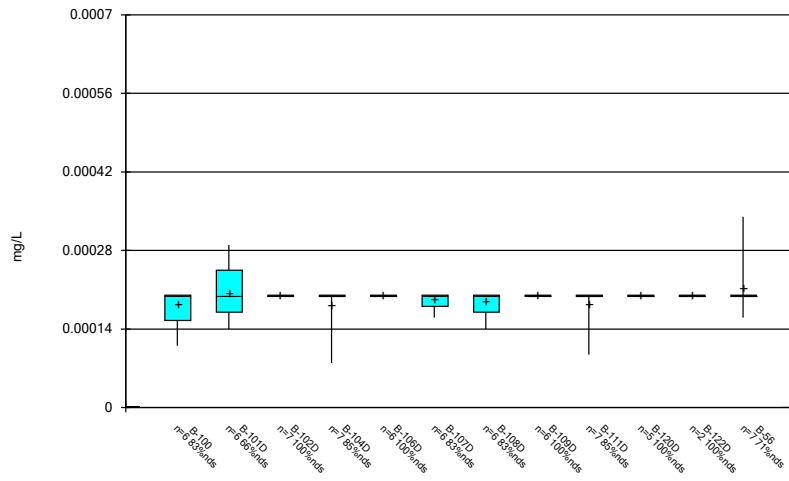
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### Box & Whiskers Plot



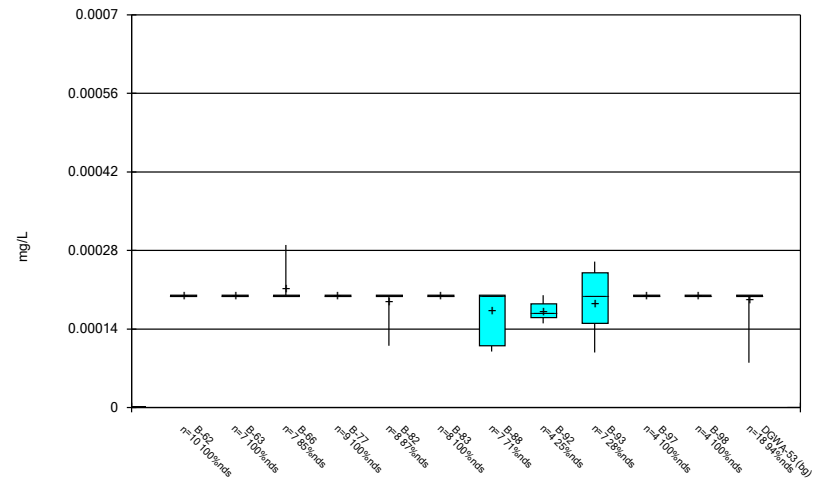
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Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



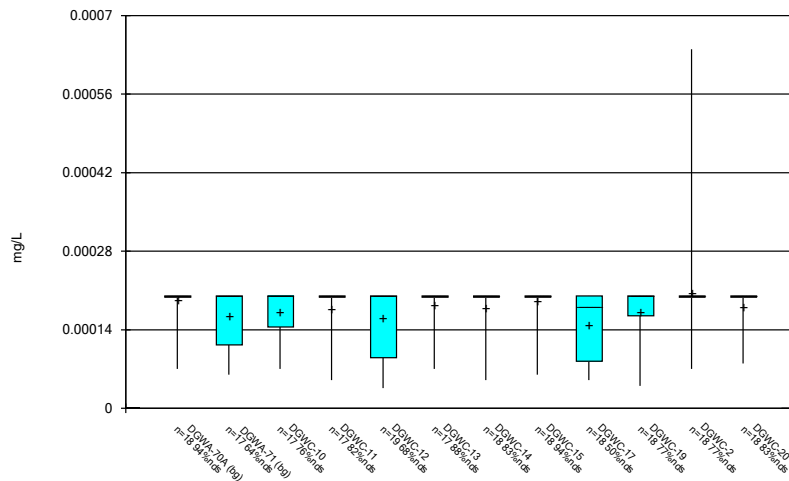
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### Box & Whiskers Plot



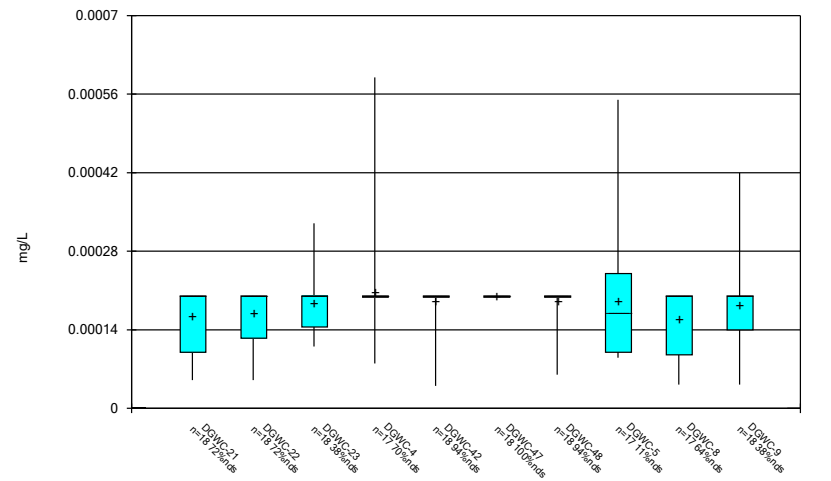
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 Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



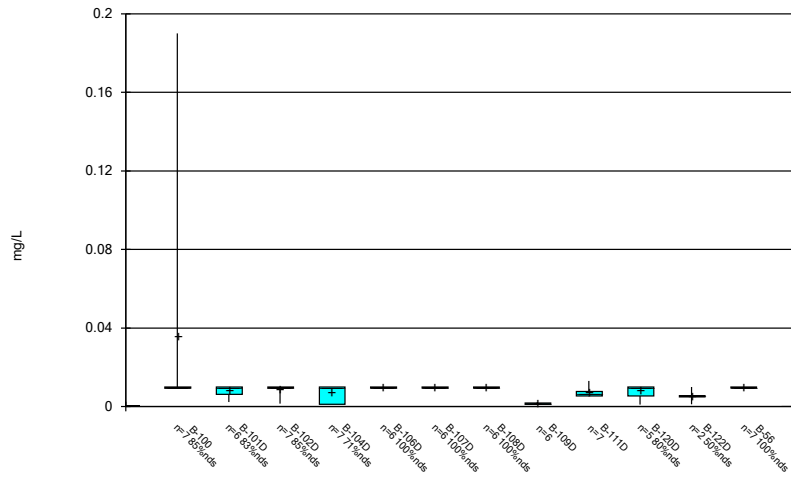
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### Box & Whiskers Plot



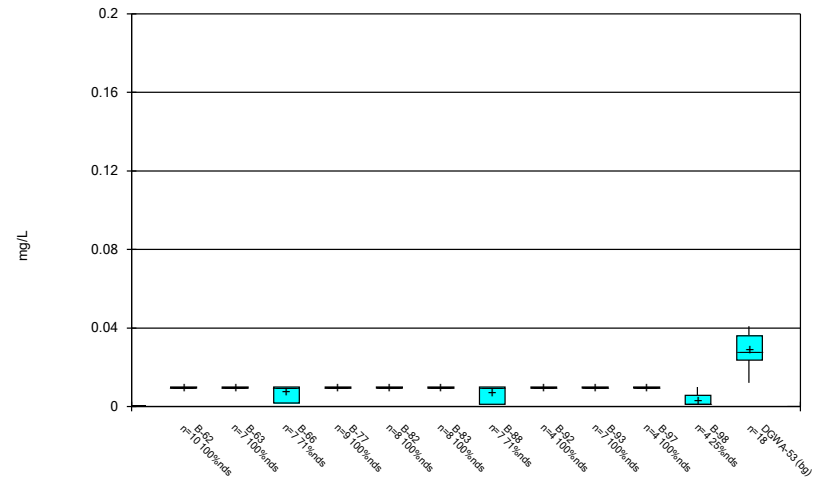
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



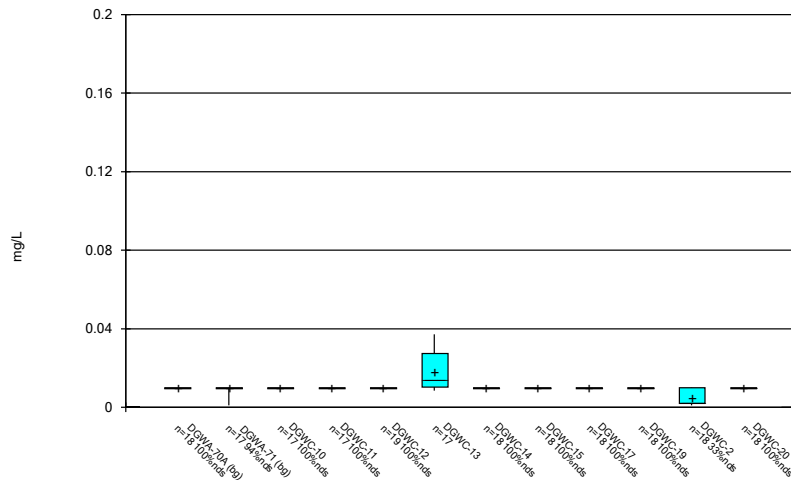
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



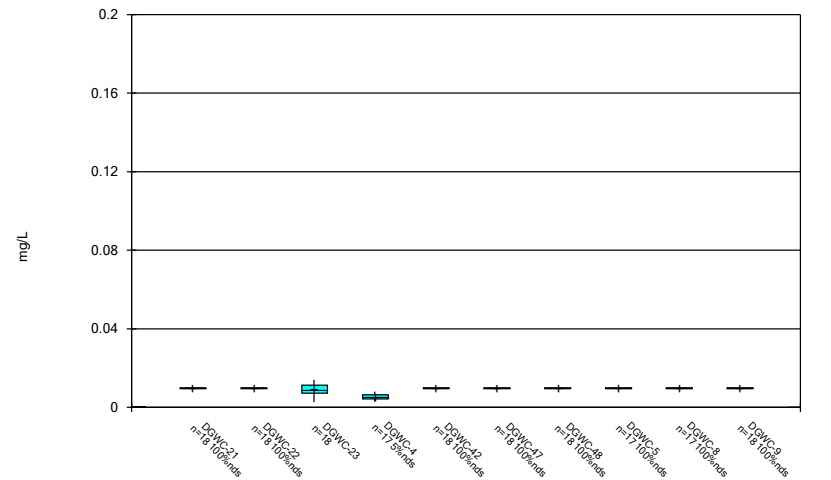
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 5/4/2023 2:49 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

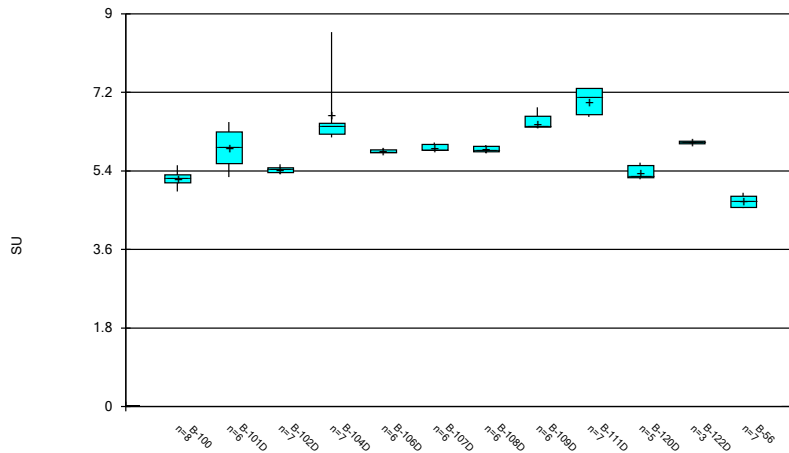
Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 5/4/2023 2:49 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

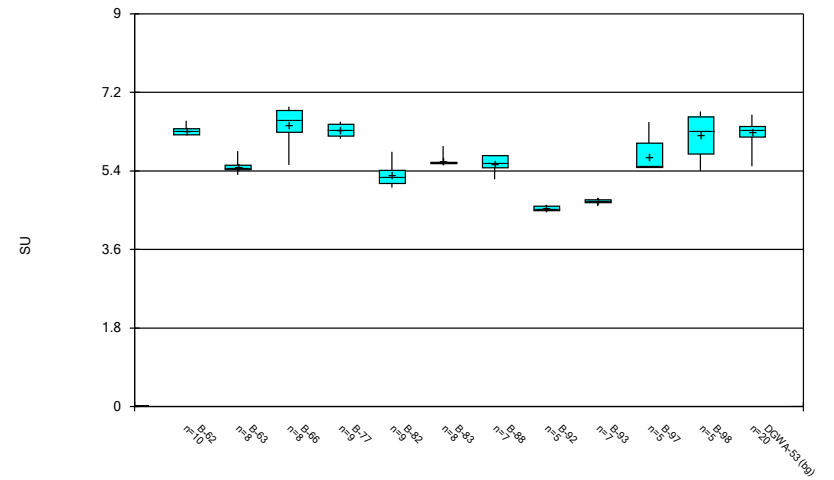


Box & Whiskers Plot



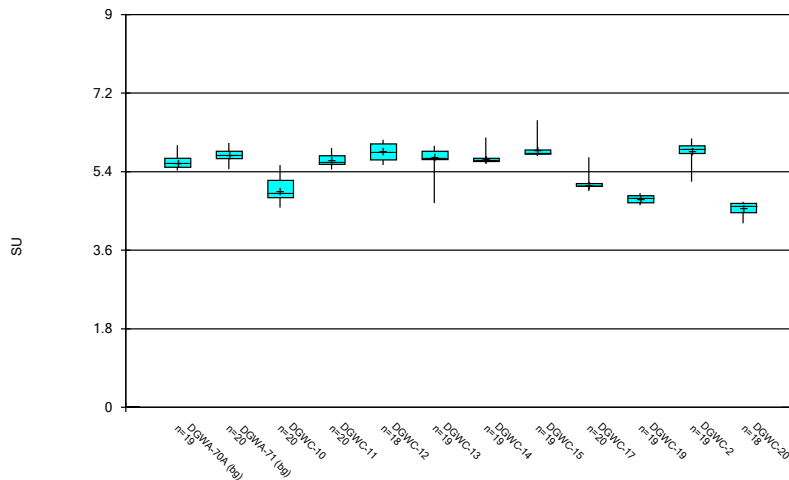
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



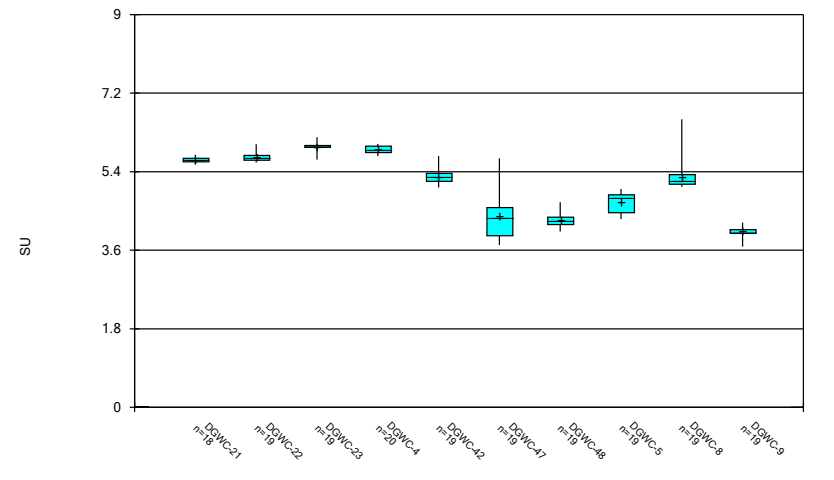
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Box & Whiskers Plot



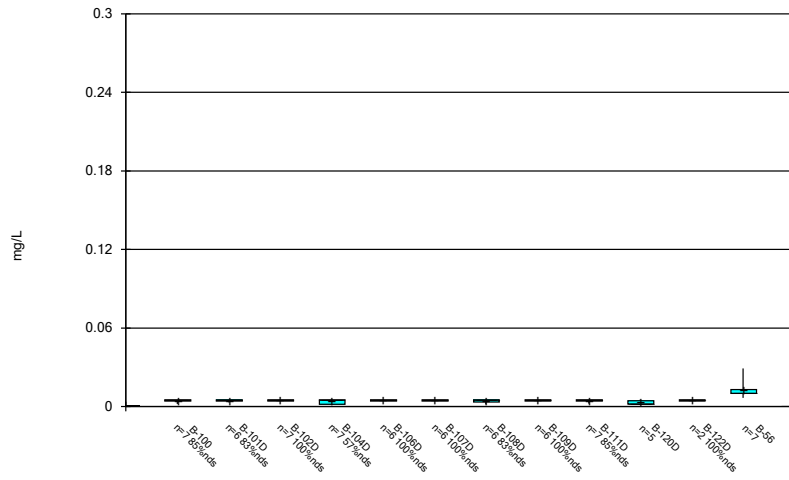
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



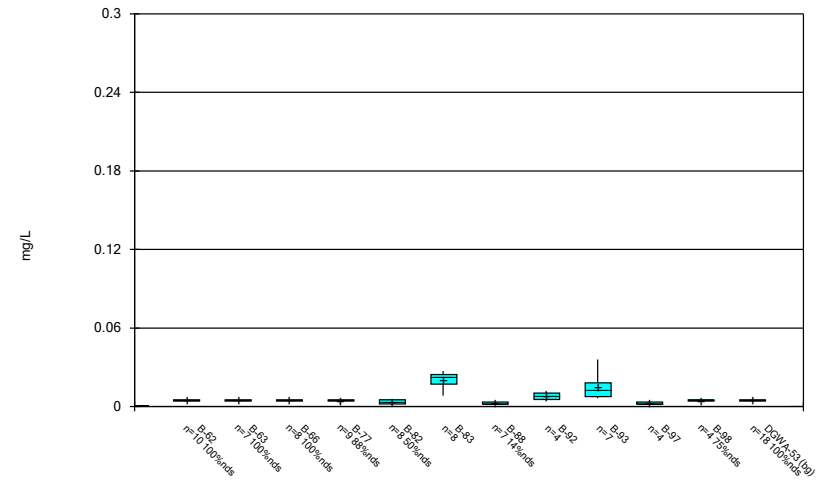
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 Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



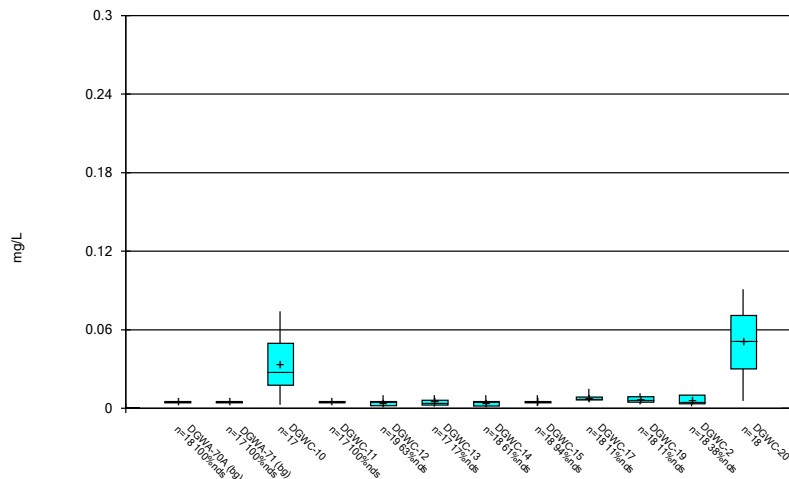
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### Box & Whiskers Plot



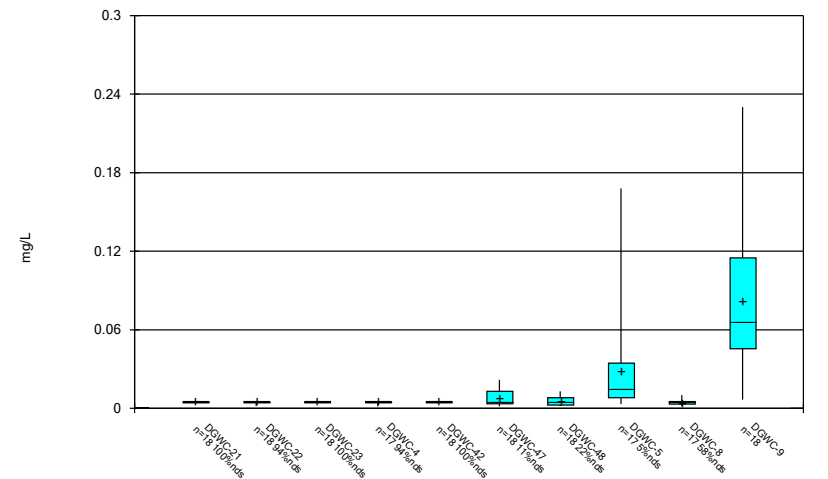
Constituent: Selenium Analysis Run 5/4/2023 2:49 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



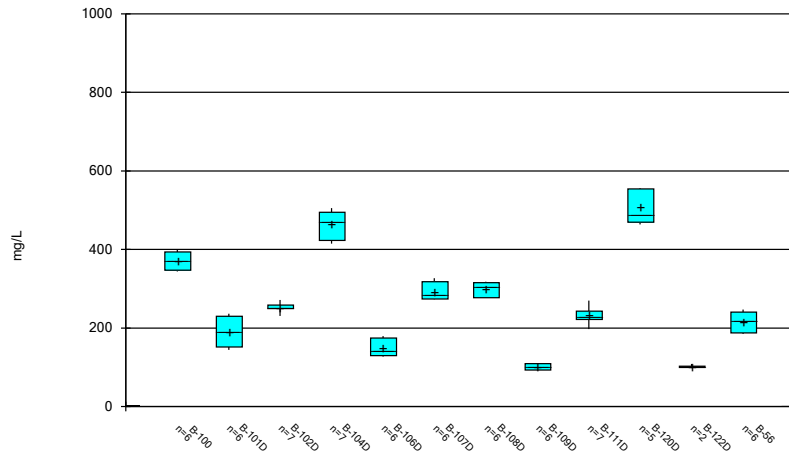
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 Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



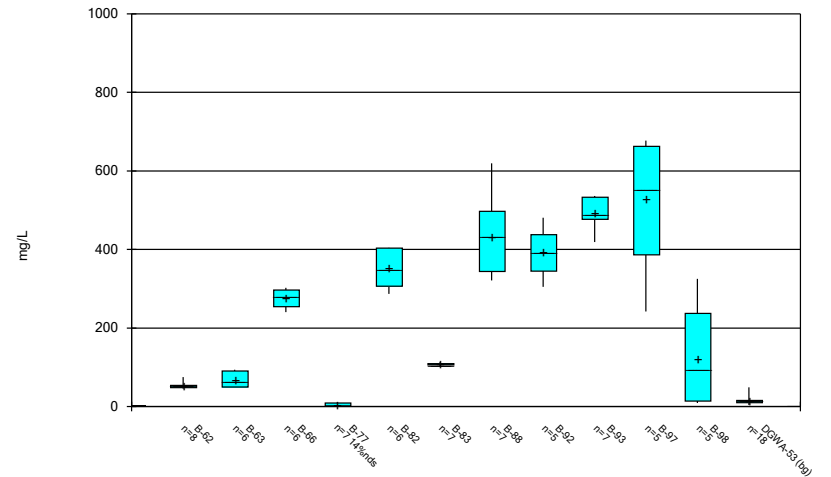
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 Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



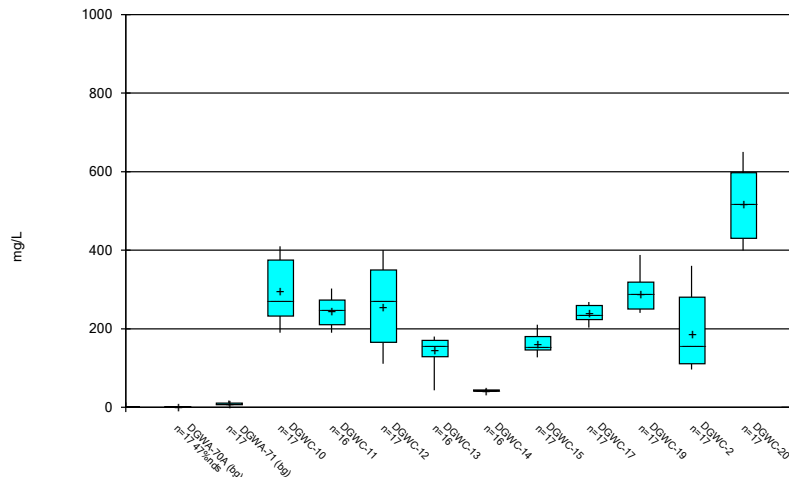
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Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



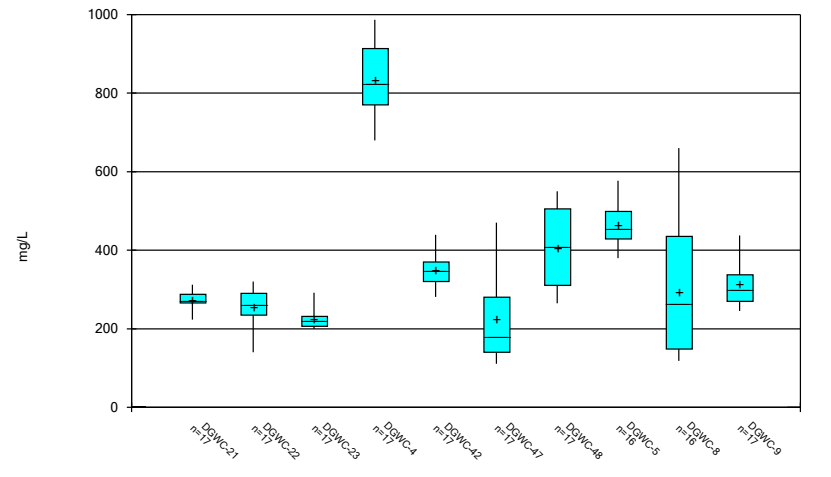
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Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



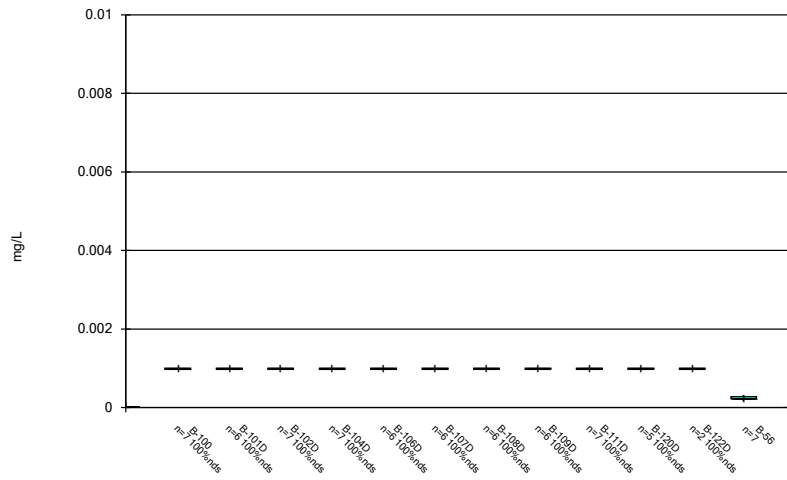
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Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



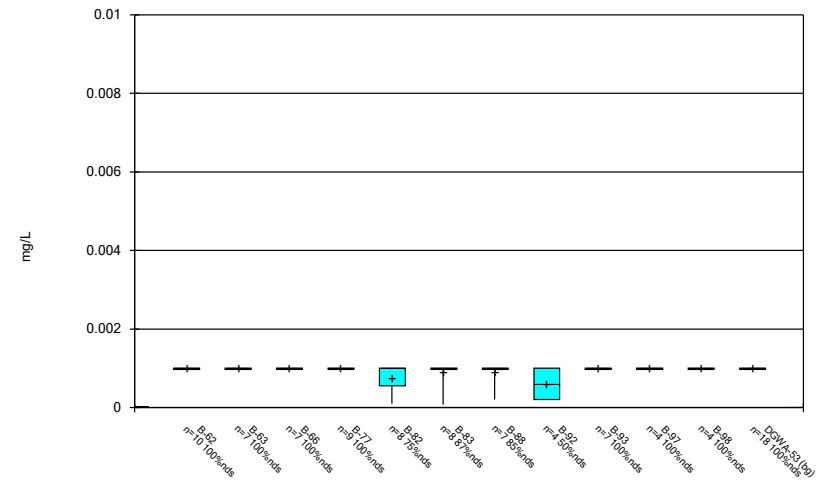
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



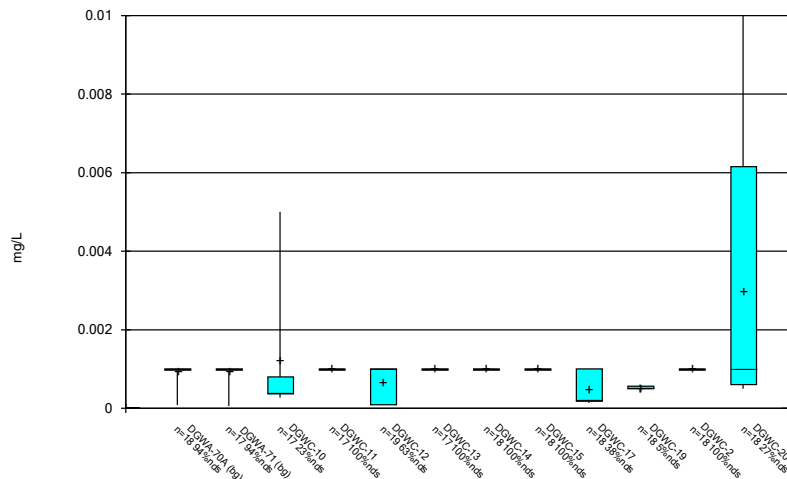
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



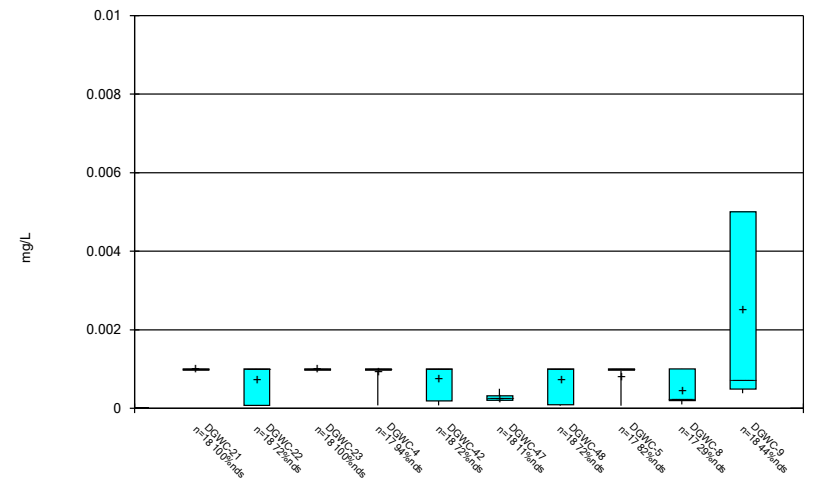
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Box & Whiskers Plot



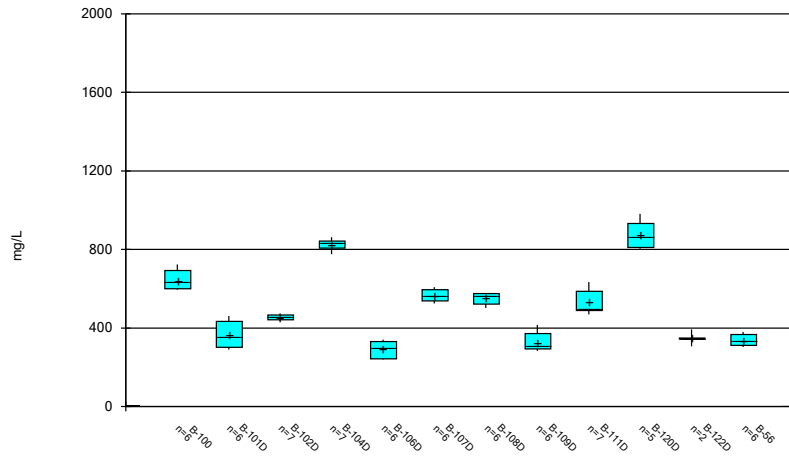
Constituent: Thallium Analysis Run 5/4/2023 2:49 PM View: AP 234  
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Box & Whiskers Plot



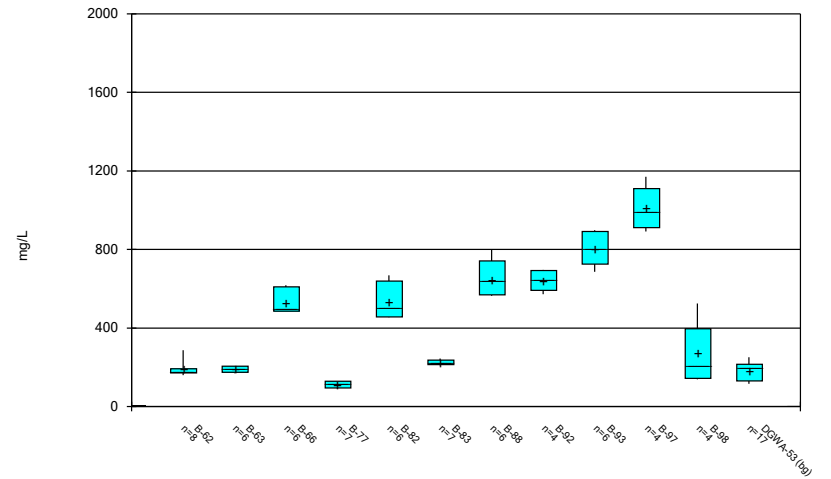
Constituent: Thallium Analysis Run 5/4/2023 2:49 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



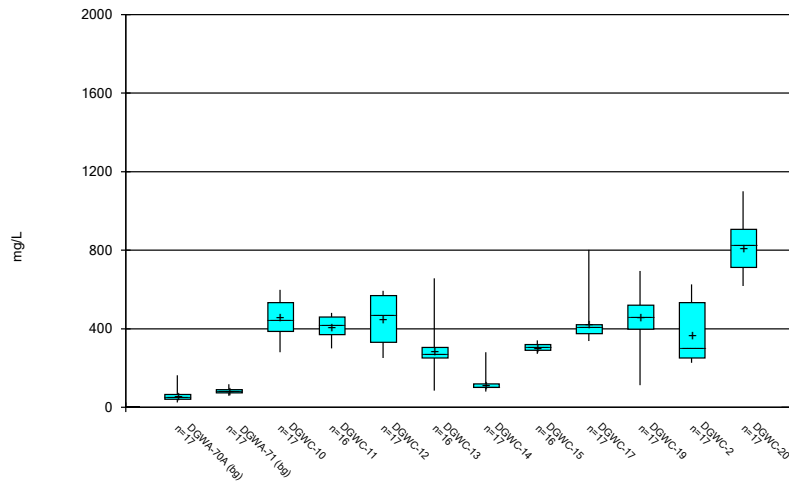
Constituent: Total Dissolved Solids Analysis Run 5/4/2023 2:49 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



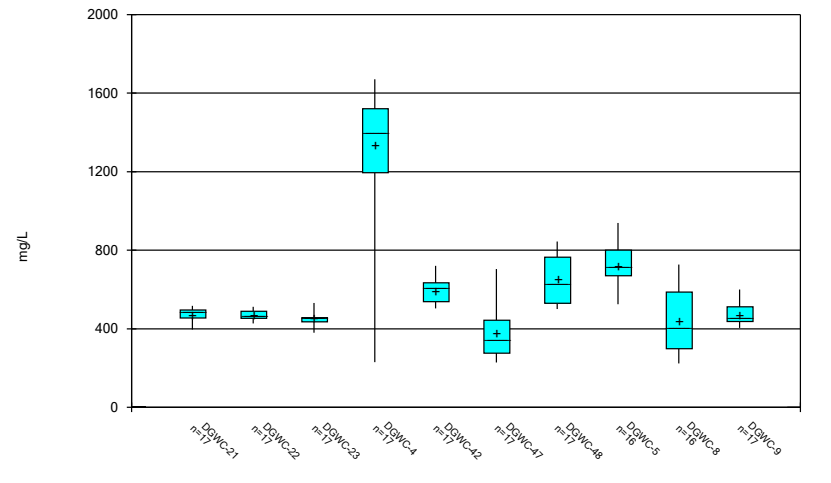
Constituent: Total Dissolved Solids Analysis Run 5/4/2023 2:49 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 5/4/2023 2:49 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 5/4/2023 2:49 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 4/10/2023, 11:50 AM

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	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 Limit - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/17/2023, 9:08 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mear	Std. Dev	%NDs	ND Adj.	Transform	Alpha	Method
Boron, total (mg/L)	DGWC-10	0.13	n/a	2/2/2023	0.34	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-11	0.13	n/a	2/6/2023	1.6	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-12	0.13	n/a	2/6/2023	0.51	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-13	0.13	n/a	2/1/2023	0.54	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-14	0.13	n/a	2/1/2023	0.16	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-15	0.13	n/a	2/2/2023	1.3	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-17	0.13	n/a	2/6/2023	0.83	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-19	0.13	n/a	2/6/2023	2.2	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-2	0.13	n/a	2/6/2023	0.38	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-20	0.13	n/a	2/7/2023	3	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-21	0.13	n/a	2/7/2023	5.6	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-22	0.13	n/a	2/6/2023	3.8	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-23	0.13	n/a	2/6/2023	4.4	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-4	0.13	n/a	2/3/2023	4.5	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-42	0.13	n/a	2/1/2023	0.94	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-47	0.13	n/a	2/3/2023	0.16	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-48	0.13	n/a	2/3/2023	0.59	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-5	0.13	n/a	2/7/2023	3.5	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-8	0.13	n/a	2/7/2023	0.74	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-9	0.13	n/a	2/3/2023	0.61	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-10	40.3	n/a	2/2/2023	60.8	Yes	50	n/a	n/a	4	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-11	40.3	n/a	2/6/2023	58.8	Yes	50	n/a	n/a	4	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-19	40.3	n/a	2/6/2023	105	Yes	50	n/a	n/a	4	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-20	40.3	n/a	2/7/2023	110	Yes	50	n/a	n/a	4	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-21	40.3	n/a	2/7/2023	84.8	Yes	50	n/a	n/a	4	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-22	40.3	n/a	2/6/2023	56.7	Yes	50	n/a	n/a	4	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-23	40.3	n/a	2/6/2023	86.4	Yes	50	n/a	n/a	4	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-4	40.3	n/a	2/3/2023	287	Yes	50	n/a	n/a	4	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-48	40.3	n/a	2/3/2023	64.1	Yes	50	n/a	n/a	4	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-5	40.3	n/a	2/7/2023	139	Yes	50	n/a	n/a	4	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-9	40.3	n/a	2/3/2023	43.8	Yes	50	n/a	n/a	4	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-10	8.2	n/a	2/2/2023	9.9	Yes	52	n/a	n/a	0	n/a	n/a	0.0006679	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-11	8.2	n/a	2/6/2023	12.1	Yes	52	n/a	n/a	0	n/a	n/a	0.0006679	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-13	8.2	n/a	2/1/2023	12.2	Yes	52	n/a	n/a	0	n/a	n/a	0.0006679	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-15	8.2	n/a	2/2/2023	22.1	Yes	52	n/a	n/a	0	n/a	n/a	0.0006679	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-17	8.2	n/a	2/6/2023	18.8	Yes	52	n/a	n/a	0	n/a	n/a	0.0006679	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-19	8.2	n/a	2/6/2023	17.9	Yes	52	n/a	n/a	0	n/a	n/a	0.0006679	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-20	8.2	n/a	2/7/2023	27.9	Yes	52	n/a	n/a	0	n/a	n/a	0.0006679	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-21	8.2	n/a	2/7/2023	18.6	Yes	52	n/a	n/a	0	n/a	n/a	0.0006679	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-22	8.2	n/a	2/6/2023	16.9	Yes	52	n/a	n/a	0	n/a	n/a	0.0006679	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-23	8.2	n/a	2/6/2023	12.4	Yes	52	n/a	n/a	0	n/a	n/a	0.0006679	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-4	8.2	n/a	2/3/2023	11	Yes	52	n/a	n/a	0	n/a	n/a	0.0006679	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-42	8.2	n/a	2/1/2023	19.3	Yes	52	n/a	n/a	0	n/a	n/a	0.0006679	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-5	8.2	n/a	2/7/2023	10	Yes	52	n/a	n/a	0	n/a	n/a	0.0006679	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-8	8.2	n/a	2/7/2023	8.7	Yes	52	n/a	n/a	0	n/a	n/a	0.0006679	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-9	8.2	n/a	2/3/2023	14.7	Yes	52	n/a	n/a	0	n/a	n/a	0.0006679	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-10	0.42	n/a	2/2/2023	1.1	Yes	57	n/a	n/a	47.37	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-20	0.42	n/a	2/7/2023	1.1	Yes	57	n/a	n/a	47.37	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-47	0.42	n/a	2/3/2023	0.45	Yes	57	n/a	n/a	47.37	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-48	0.42	n/a	2/3/2023	0.48	Yes	57	n/a	n/a	47.37	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-9	0.42	n/a	2/3/2023	0.9	Yes	57	n/a	n/a	47.37	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-10	6.69	5.43	2/2/2023	4.67	Yes	59	n/a	n/a	0	n/a	n/a	0.001051	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-17	6.69	5.43	2/6/2023	5.13	Yes	59	n/a	n/a	0	n/a	n/a	0.001051	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-19	6.69	5.43	2/6/2023	4.82	Yes	59	n/a	n/a	0	n/a	n/a	0.001051	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-2	6.69	5.43	2/6/2023	5.17	Yes	59	n/a	n/a	0	n/a	n/a	0.001051	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-20	6.69	5.43	2/7/2023	4.33	Yes	59	n/a	n/a	0	n/a	n/a	0.001051	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-42	6.69	5.43	2/1/2023	5.17	Yes	59	n/a	n/a	0	n/a	n/a	0.001051	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-47	6.69	5.43	2/3/2023	3.88	Yes	59	n/a	n/a	0	n/a	n/a	0.001051	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-48	6.69	5.43	2/3/2023	4.2	Yes	59	n/a	n/a	0	n/a	n/a	0.001051	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-5	6.69	5.43	2/7/2023	4.89	Yes	59	n/a	n/a	0	n/a	n/a	0.001051	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-8	6.69	5.43	2/7/2023	5.23	Yes	59	n/a	n/a	0	n/a	n/a	0.001051	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-9	6.69	5.43	2/3/2023	4.02	Yes	59	n/a	n/a	0	n/a	n/a	0.001051	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-10	37.04	n/a	2/2/2023	235	Yes	52	1.694	0.7439	15.38	Kaplan-Meier x^(1/3)	n/a	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-11	37.04	n/a	2/6/2023	273	Yes	52	1.694	0.7439	15.38	Kaplan-Meier x^(1/3)	n/a	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-12	37.04	n/a	2/6/2023	142	Yes	52	1.694	0.7439	15.38	Kaplan-Meier x^(1/3)	n/a	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-13	37.04	n/a	2/1/2023	97.5	Yes	52	1.694	0.7439	15.38	Kaplan-Meier x^(1/3)	n/a	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-14	37.04	n/a	2/1/2023	45.9	Yes	52	1.694	0.7439	15.38	Kaplan-Meier x^(1/3)	n/a	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-15	37.04	n/a	2/2/2023	137	Yes	52	1.694	0.7439	15.38	Kaplan-Meier x^(1/3)	n/a	0.0003762	Param Inter 1 of 2

# Interwell Prediction Limit - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/17/2023, 9:08 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mear	Std. Dev	%NDs	ND Adj.	Transform	Alpha	Method
Sulfate as SO4 (mg/L)	DGWC-17	37.04	n/a	2/6/2023	262	Yes	52	1.694	0.7439	15.38	Kaplan-Meier	x^(1/3)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-19	37.04	n/a	2/6/2023	379	Yes	52	1.694	0.7439	15.38	Kaplan-Meier	x^(1/3)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-2	37.04	n/a	2/6/2023	96.4	Yes	52	1.694	0.7439	15.38	Kaplan-Meier	x^(1/3)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-20	37.04	n/a	2/7/2023	517	Yes	52	1.694	0.7439	15.38	Kaplan-Meier	x^(1/3)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-21	37.04	n/a	2/7/2023	285	Yes	52	1.694	0.7439	15.38	Kaplan-Meier	x^(1/3)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-22	37.04	n/a	2/6/2023	235	Yes	52	1.694	0.7439	15.38	Kaplan-Meier	x^(1/3)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-23	37.04	n/a	2/6/2023	262	Yes	52	1.694	0.7439	15.38	Kaplan-Meier	x^(1/3)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-4	37.04	n/a	2/3/2023	949	Yes	52	1.694	0.7439	15.38	Kaplan-Meier	x^(1/3)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-42	37.04	n/a	2/1/2023	313	Yes	52	1.694	0.7439	15.38	Kaplan-Meier	x^(1/3)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-47	37.04	n/a	2/3/2023	138	Yes	52	1.694	0.7439	15.38	Kaplan-Meier	x^(1/3)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-48	37.04	n/a	2/3/2023	301	Yes	52	1.694	0.7439	15.38	Kaplan-Meier	x^(1/3)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-5	37.04	n/a	2/7/2023	577	Yes	52	1.694	0.7439	15.38	Kaplan-Meier	x^(1/3)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-8	37.04	n/a	2/7/2023	118	Yes	52	1.694	0.7439	15.38	Kaplan-Meier	x^(1/3)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-9	37.04	n/a	2/3/2023	277	Yes	52	1.694	0.7439	15.38	Kaplan-Meier	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-10	268.1	n/a	2/2/2023	390	Yes	51	9.894	2.938	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-11	268.1	n/a	2/6/2023	481	Yes	51	9.894	2.938	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-15	268.1	n/a	2/2/2023	288	Yes	51	9.894	2.938	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-17	268.1	n/a	2/6/2023	403	Yes	51	9.894	2.938	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-19	268.1	n/a	2/6/2023	600	Yes	51	9.894	2.938	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-20	268.1	n/a	2/7/2023	848	Yes	51	9.894	2.938	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-21	268.1	n/a	2/7/2023	498	Yes	51	9.894	2.938	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-22	268.1	n/a	2/6/2023	427	Yes	51	9.894	2.938	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-23	268.1	n/a	2/6/2023	532	Yes	51	9.894	2.938	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-4	268.1	n/a	2/3/2023	1630	Yes	51	9.894	2.938	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-42	268.1	n/a	2/1/2023	541	Yes	51	9.894	2.938	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-48	268.1	n/a	2/3/2023	527	Yes	51	9.894	2.938	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-5	268.1	n/a	2/7/2023	939	Yes	51	9.894	2.938	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-9	268.1	n/a	2/3/2023	437	Yes	51	9.894	2.938	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2

# Interwell Prediction Limit - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/17/2023, 9:08 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mear	Std. Dev	%NDs	ND Adj.	Transform	Alpha	Method
Boron, total (mg/L)	DGWC-10	0.13	n/a	2/2/2023	0.34	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-11	0.13	n/a	2/6/2023	1.6	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-12	0.13	n/a	2/6/2023	0.51	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-13	0.13	n/a	2/1/2023	0.54	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-14	0.13	n/a	2/1/2023	0.16	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-15	0.13	n/a	2/2/2023	1.3	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-17	0.13	n/a	2/6/2023	0.83	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-19	0.13	n/a	2/6/2023	2.2	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-2	0.13	n/a	2/6/2023	0.38	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-20	0.13	n/a	2/7/2023	3	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-21	0.13	n/a	2/7/2023	5.6	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-22	0.13	n/a	2/6/2023	3.8	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-23	0.13	n/a	2/6/2023	4.4	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-4	0.13	n/a	2/3/2023	4.5	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-42	0.13	n/a	2/1/2023	0.94	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-47	0.13	n/a	2/3/2023	0.16	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-48	0.13	n/a	2/3/2023	0.59	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-5	0.13	n/a	2/7/2023	3.5	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-8	0.13	n/a	2/7/2023	0.74	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-9	0.13	n/a	2/3/2023	0.61	Yes	50	n/a	n/a	26	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-10	40.3	n/a	2/2/2023	60.8	Yes	50	n/a	n/a	4	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-11	40.3	n/a	2/6/2023	58.8	Yes	50	n/a	n/a	4	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-12	40.3	n/a	2/6/2023	28.3	No	50	n/a	n/a	4	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-13	40.3	n/a	2/1/2023	33.6	No	50	n/a	n/a	4	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-14	40.3	n/a	2/1/2023	11.9	No	50	n/a	n/a	4	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-15	40.3	n/a	2/2/2023	32.2	No	50	n/a	n/a	4	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-17	40.3	n/a	2/6/2023	17.5	No	50	n/a	n/a	4	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-19	40.3	n/a	2/6/2023	105	Yes	50	n/a	n/a	4	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-2	40.3	n/a	2/6/2023	35.3	No	50	n/a	n/a	4	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-20	40.3	n/a	2/7/2023	110	Yes	50	n/a	n/a	4	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-21	40.3	n/a	2/7/2023	84.8	Yes	50	n/a	n/a	4	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-22	40.3	n/a	2/6/2023	56.7	Yes	50	n/a	n/a	4	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-23	40.3	n/a	2/6/2023	86.4	Yes	50	n/a	n/a	4	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-4	40.3	n/a	2/3/2023	287	Yes	50	n/a	n/a	4	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-42	40.3	n/a	2/1/2023	32.7	No	50	n/a	n/a	4	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-47	40.3	n/a	2/3/2023	23.7	No	50	n/a	n/a	4	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-48	40.3	n/a	2/3/2023	64.1	Yes	50	n/a	n/a	4	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-5	40.3	n/a	2/7/2023	139	Yes	50	n/a	n/a	4	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-8	40.3	n/a	2/7/2023	26	No	50	n/a	n/a	4	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-9	40.3	n/a	2/3/2023	43.8	Yes	50	n/a	n/a	4	n/a	n/a	0.0007087	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-10	8.2	n/a	2/2/2023	9.9	Yes	52	n/a	n/a	0	n/a	n/a	0.0006679	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-11	8.2	n/a	2/6/2023	12.1	Yes	52	n/a	n/a	0	n/a	n/a	0.0006679	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-12	8.2	n/a	2/6/2023	6.8	No	52	n/a	n/a	0	n/a	n/a	0.0006679	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-13	8.2	n/a	2/1/2023	12.2	Yes	52	n/a	n/a	0	n/a	n/a	0.0006679	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-14	8.2	n/a	2/1/2023	4.5	No	52	n/a	n/a	0	n/a	n/a	0.0006679	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-15	8.2	n/a	2/2/2023	22.1	Yes	52	n/a	n/a	0	n/a	n/a	0.0006679	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-17	8.2	n/a	2/6/2023	18.8	Yes	52	n/a	n/a	0	n/a	n/a	0.0006679	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-19	8.2	n/a	2/6/2023	17.9	Yes	52	n/a	n/a	0	n/a	n/a	0.0006679	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-2	8.2	n/a	2/6/2023	2.1	No	52	n/a	n/a	0	n/a	n/a	0.0006679	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-20	8.2	n/a	2/7/2023	27.9	Yes	52	n/a	n/a	0	n/a	n/a	0.0006679	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-21	8.2	n/a	2/7/2023	18.6	Yes	52	n/a	n/a	0	n/a	n/a	0.0006679	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-22	8.2	n/a	2/6/2023	16.9	Yes	52	n/a	n/a	0	n/a	n/a	0.0006679	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-23	8.2	n/a	2/6/2023	12.4	Yes	52	n/a	n/a	0	n/a	n/a	0.0006679	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-4	8.2	n/a	2/3/2023	11	Yes	52	n/a	n/a	0	n/a	n/a	0.0006679	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-42	8.2	n/a	2/1/2023	19.3	Yes	52	n/a	n/a	0	n/a	n/a	0.0006679	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-47	8.2	n/a	2/3/2023	2.6	No	52	n/a	n/a	0	n/a	n/a	0.0006679	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-48	8.2	n/a	2/3/2023	8.2	No	52	n/a	n/a	0	n/a	n/a	0.0006679	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-5	8.2	n/a	2/7/2023	10	Yes	52	n/a	n/a	0	n/a	n/a	0.0006679	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-8	8.2	n/a	2/7/2023	8.7	Yes	52	n/a	n/a	0	n/a	n/a	0.0006679	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-9	8.2	n/a	2/3/2023	14.7	Yes	52	n/a	n/a	0	n/a	n/a	0.0006679	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-10	0.42	n/a	2/2/2023	1.1	Yes	57	n/a	n/a	47.37	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-11	0.42	n/a	2/6/2023	0.1ND	No	57	n/a	n/a	47.37	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-12	0.42	n/a	2/6/2023	0.1	No	57	n/a	n/a	47.37	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-13	0.42	n/a	2/1/2023	0.09J	No	57	n/a	n/a	47.37	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-14	0.42	n/a	2/1/2023	0.067J	No	57	n/a	n/a	47.37	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-15	0.42	n/a	2/2/2023	0.065J	No	57	n/a	n/a	47.37	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-17	0.42	n/a	2/6/2023	0.096J	No	57	n/a	n/a	47.37	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-19	0.42	n/a	2/6/2023	0.22	No	57	n/a	n/a	47.37	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2

# Interwell Prediction Limit - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/17/2023, 9:08 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mear	Std. Dev	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride, total (mg/L)	DGWC-2	0.42	n/a	2/6/2023	0.072J	No	57	n/a	n/a	47.37	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
<b>Fluoride, total (mg/L)</b>	<b>DGWC-20</b>	<b>0.42</b>	<b>n/a</b>	<b>2/7/2023</b>	<b>1.1</b>	<b>Yes</b>	<b>57</b>	<b>n/a</b>	<b>n/a</b>	<b>47.37</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0005663</b>	<b>NP Inter (normality) 1 of 2</b>
Fluoride, total (mg/L)	DGWC-21	0.42	n/a	2/7/2023	0.059J	No	57	n/a	n/a	47.37	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-22	0.42	n/a	2/6/2023	0.057J	No	57	n/a	n/a	47.37	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-23	0.42	n/a	2/6/2023	0.076J	No	57	n/a	n/a	47.37	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-4	0.42	n/a	2/3/2023	0.096J	No	57	n/a	n/a	47.37	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-42	0.42	n/a	2/1/2023	0.1ND	No	57	n/a	n/a	47.37	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
<b>Fluoride, total (mg/L)</b>	<b>DGWC-47</b>	<b>0.42</b>	<b>n/a</b>	<b>2/3/2023</b>	<b>0.45</b>	<b>Yes</b>	<b>57</b>	<b>n/a</b>	<b>n/a</b>	<b>47.37</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0005663</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Fluoride, total (mg/L)</b>	<b>DGWC-48</b>	<b>0.42</b>	<b>n/a</b>	<b>2/3/2023</b>	<b>0.48</b>	<b>Yes</b>	<b>57</b>	<b>n/a</b>	<b>n/a</b>	<b>47.37</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0005663</b>	<b>NP Inter (normality) 1 of 2</b>
Fluoride, total (mg/L)	DGWC-5	0.42	n/a	2/7/2023	0.22	No	57	n/a	n/a	47.37	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-8	0.42	n/a	2/7/2023	0.13	No	57	n/a	n/a	47.37	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
<b>Fluoride, total (mg/L)</b>	<b>DGWC-9</b>	<b>0.42</b>	<b>n/a</b>	<b>2/3/2023</b>	<b>0.9</b>	<b>Yes</b>	<b>57</b>	<b>n/a</b>	<b>n/a</b>	<b>47.37</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0005663</b>	<b>NP Inter (normality) 1 of 2</b>
pH, Field (SU)	DGWC-10	6.69	5.43	2/2/2023	4.67	Yes	59	n/a	n/a	0	n/a	n/a	0.001051	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-11	6.69	5.43	2/6/2023	5.45	No	59	n/a	n/a	0	n/a	n/a	0.001051	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-12	6.69	5.43	2/6/2023	5.9	No	59	n/a	n/a	0	n/a	n/a	0.001051	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-13	6.69	5.43	2/1/2023	5.54	No	59	n/a	n/a	0	n/a	n/a	0.001051	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-14	6.69	5.43	2/1/2023	5.87	No	59	n/a	n/a	0	n/a	n/a	0.001051	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-15	6.69	5.43	2/2/2023	5.86	No	59	n/a	n/a	0	n/a	n/a	0.001051	NP Inter (normality) 1 of 2
<b>pH, Field (SU)</b>	<b>DGWC-17</b>	<b>6.69</b>	<b>5.43</b>	<b>2/6/2023</b>	<b>5.13</b>	<b>Yes</b>	<b>59</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.001051</b>	<b>NP Inter (normality) 1 of 2</b>
<b>pH, Field (SU)</b>	<b>DGWC-19</b>	<b>6.69</b>	<b>5.43</b>	<b>2/6/2023</b>	<b>4.82</b>	<b>Yes</b>	<b>59</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.001051</b>	<b>NP Inter (normality) 1 of 2</b>
<b>pH, Field (SU)</b>	<b>DGWC-2</b>	<b>6.69</b>	<b>5.43</b>	<b>2/6/2023</b>	<b>5.17</b>	<b>Yes</b>	<b>59</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.001051</b>	<b>NP Inter (normality) 1 of 2</b>
<b>pH, Field (SU)</b>	<b>DGWC-20</b>	<b>6.69</b>	<b>5.43</b>	<b>2/7/2023</b>	<b>4.33</b>	<b>Yes</b>	<b>59</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.001051</b>	<b>NP Inter (normality) 1 of 2</b>
pH, Field (SU)	DGWC-21	6.69	5.43	2/7/2023	5.7	No	59	n/a	n/a	0	n/a	n/a	0.001051	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-22	6.69	5.43	2/6/2023	5.84	No	59	n/a	n/a	0	n/a	n/a	0.001051	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-23	6.69	5.43	2/6/2023	5.97	No	59	n/a	n/a	0	n/a	n/a	0.001051	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-4	6.69	5.43	2/3/2023	5.77	No	59	n/a	n/a	0	n/a	n/a	0.001051	NP Inter (normality) 1 of 2
<b>pH, Field (SU)</b>	<b>DGWC-42</b>	<b>6.69</b>	<b>5.43</b>	<b>2/1/2023</b>	<b>5.17</b>	<b>Yes</b>	<b>59</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.001051</b>	<b>NP Inter (normality) 1 of 2</b>
<b>pH, Field (SU)</b>	<b>DGWC-47</b>	<b>6.69</b>	<b>5.43</b>	<b>2/3/2023</b>	<b>3.88</b>	<b>Yes</b>	<b>59</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.001051</b>	<b>NP Inter (normality) 1 of 2</b>
<b>pH, Field (SU)</b>	<b>DGWC-48</b>	<b>6.69</b>	<b>5.43</b>	<b>2/3/2023</b>	<b>4.2</b>	<b>Yes</b>	<b>59</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.001051</b>	<b>NP Inter (normality) 1 of 2</b>
<b>pH, Field (SU)</b>	<b>DGWC-5</b>	<b>6.69</b>	<b>5.43</b>	<b>2/7/2023</b>	<b>4.89</b>	<b>Yes</b>	<b>59</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.001051</b>	<b>NP Inter (normality) 1 of 2</b>
<b>pH, Field (SU)</b>	<b>DGWC-8</b>	<b>6.69</b>	<b>5.43</b>	<b>2/7/2023</b>	<b>5.23</b>	<b>Yes</b>	<b>59</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.001051</b>	<b>NP Inter (normality) 1 of 2</b>
<b>pH, Field (SU)</b>	<b>DGWC-9</b>	<b>6.69</b>	<b>5.43</b>	<b>2/3/2023</b>	<b>4.02</b>	<b>Yes</b>	<b>59</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.001051</b>	<b>NP Inter (normality) 1 of 2</b>
Sulfate as SO4 (mg/L)	DGWC-10	37.04	n/a	2/2/2023	235	Yes	52	1.694	0.7439	15.38	Kaplan-Meier x^(1/3)		0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-11	37.04	n/a	2/6/2023	273	Yes	52	1.694	0.7439	15.38	Kaplan-Meier x^(1/3)		0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-12	37.04	n/a	2/6/2023	142	Yes	52	1.694	0.7439	15.38	Kaplan-Meier x^(1/3)		0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-13	37.04	n/a	2/1/2023	97.5	Yes	52	1.694	0.7439	15.38	Kaplan-Meier x^(1/3)		0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-14	37.04	n/a	2/1/2023	45.9	Yes	52	1.694	0.7439	15.38	Kaplan-Meier x^(1/3)		0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-15	37.04	n/a	2/2/2023	137	Yes	52	1.694	0.7439	15.38	Kaplan-Meier x^(1/3)		0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-17	37.04	n/a	2/6/2023	262	Yes	52	1.694	0.7439	15.38	Kaplan-Meier x^(1/3)		0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-19	37.04	n/a	2/6/2023	379	Yes	52	1.694	0.7439	15.38	Kaplan-Meier x^(1/3)		0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-2	37.04	n/a	2/6/2023	96.4	Yes	52	1.694	0.7439	15.38	Kaplan-Meier x^(1/3)		0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-20	37.04	n/a	2/7/2023	517	Yes	52	1.694	0.7439	15.38	Kaplan-Meier x^(1/3)		0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-21	37.04	n/a	2/7/2023	285	Yes	52	1.694	0.7439	15.38	Kaplan-Meier x^(1/3)		0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-22	37.04	n/a	2/6/2023	235	Yes	52	1.694	0.7439	15.38	Kaplan-Meier x^(1/3)		0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-23	37.04	n/a	2/6/2023	262	Yes	52	1.694	0.7439	15.38	Kaplan-Meier x^(1/3)		0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-4	37.04	n/a	2/3/2023	949	Yes	52	1.694	0.7439	15.38	Kaplan-Meier x^(1/3)		0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-42	37.04	n/a	2/1/2023	313	Yes	52	1.694	0.7439	15.38	Kaplan-Meier x^(1/3)		0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-47	37.04	n/a	2/3/2023	138	Yes	52	1.694	0.7439	15.38	Kaplan-Meier x^(1/3)		0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-48	37.04	n/a	2/3/2023	301	Yes	52	1.694	0.7439	15.38	Kaplan-Meier x^(1/3)		0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-5	37.04	n/a	2/7/2023	577	Yes	52	1.694	0.7439	15.38	Kaplan-Meier x^(1/3)		0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-8	37.04	n/a	2/7/2023	118	Yes	52	1.694	0.7439	15.38	Kaplan-Meier x^(1/3)		0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-9	37.04	n/a	2/3/2023	277	Yes	52	1.694	0.7439	15.38	Kaplan-Meier x^(1/3)		0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-10	268.1	n/a	2/2/2023	390	Yes	51	9.894	2.938	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-11	268.1	n/a	2/6/2023	481	Yes	51	9.894	2.938	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-12	268.1	n/a	2/6/2023	251	No	51	9.894	2.938	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-13	268.1	n/a	2/1/2023	216	No	51	9.894	2.938	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-14	268.1	n/a	2/1/2023	116	No	51	9.894	2.938	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-15	268.1	n/a	2/2/2023	288	Yes	51	9.894	2.938	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-17	268.1	n/a	2/6/2023	403	Yes	51	9.894	2.938	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-19	268.1	n/a	2/6/2023	600	Yes	51	9.894	2.938	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-2	268.1	n/a	2/6/2023	226	No	51	9.894	2.938	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-20	268.1	n/a	2/7/2023	848	Yes	51	9.894	2.938	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-21	268.1	n/a	2/7/2023	498	Yes	51	9.894	2.938	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-22	268.1	n/a	2/6/2023	427	Yes	51	9.894	2.938	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-23	268.1	n/a	2/6/2023	532	Yes	51	9.894	2.938	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-4	268.1	n/a	2/3/2023	1630	Yes	51	9.894	2.938	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-42	268.1	n/a	2/1/2023	541	Yes	51	9.894	2.938	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-47	268.1	n/a	2/3/2023	259	No	51	9.894	2.938	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2

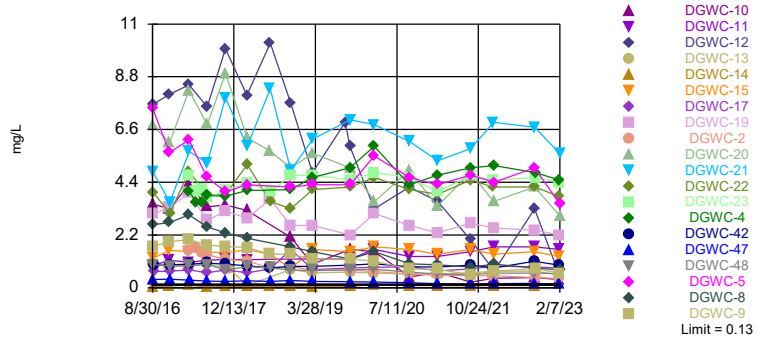
# Interwell Prediction Limit - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/17/2023, 9:08 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mear	Std. Dev	%NDs	ND Adj.	Transform	Alpha	Method
Total Dissolved Solids [TDS] (mg/L)	DGWC-48	268.1	n/a	2/3/2023	527	Yes	51	9.894	2.938	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-5	268.1	n/a	2/7/2023	939	Yes	51	9.894	2.938	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-8	268.1	n/a	2/7/2023	223	No	51	9.894	2.938	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-9	268.1	n/a	2/3/2023	437	Yes	51	9.894	2.938	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2

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 Non-parametric

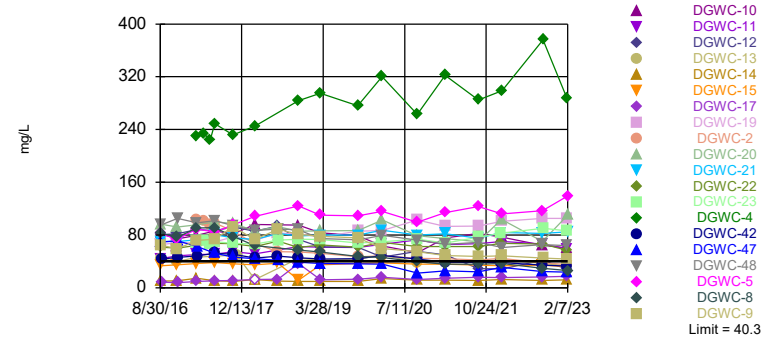


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 50 background values. 26% NDs. Annual per-constituent alpha = 0.02796. Individual comparison alpha = 0.0007087 (1 of 2). Comparing 20 points to limit.

Constituent: Boron, total Analysis Run 4/17/2023 9:06 AM View: Interwell PL (234) Plant McDonough Client: Southern Company Data: McDonough AP

Exceeds Limit: DGWC-10, DGWC-11, DGWC-19, DGWC-20, DGWC-21, DGWC-22, DGWC-23, DGWC-4, DGWC-48, DGWC-5...

Prediction Limit Interwell Non-parametric

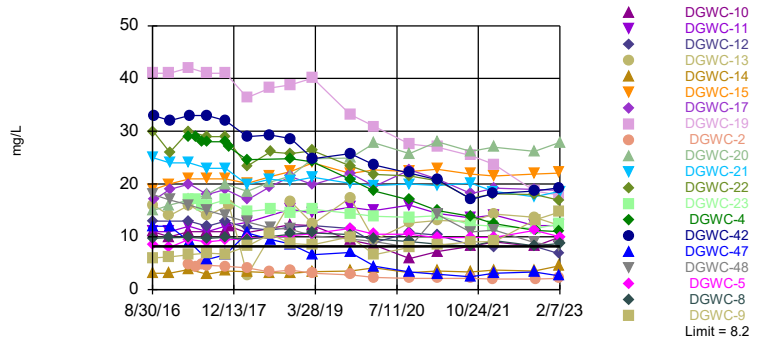


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 50 background values. 4% NDs. Annual per-constituent alpha = 0.02796. Individual comparison alpha = 0.0007087 (1 of 2). Comparing 20 points to limit.

Constituent: Calcium, total Analysis Run 4/17/2023 9:06 AM View: Interwell PL (234) Plant McDonough Client: Southern Company Data: McDonough AP

Exceeds Limit: DGWC-10, DGWC-11, DGWC-13, DGWC-15, DGWC-17, DGWC-19, DGWC-20, DGWC-21, DGWC-22, DGWC-23...

Prediction Limit Interwell Non-parametric

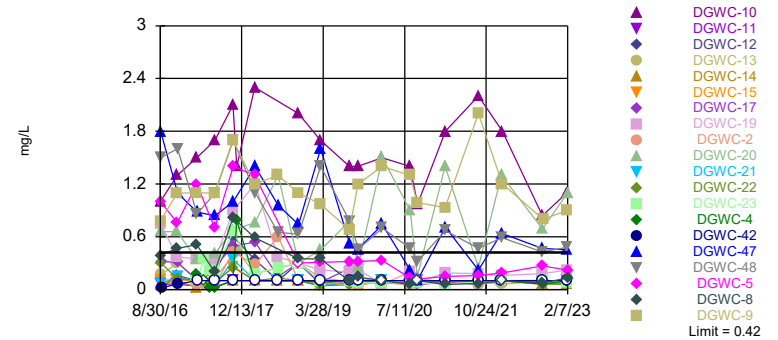


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 52 background values. Annual per-constituent alpha = 0.02637. Individual comparison alpha = 0.0006679 (1 of 2). Comparing 20 points to limit.

Constituent: Chloride, Total Analysis Run 4/17/2023 9:06 AM View: Interwell PL (234) 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

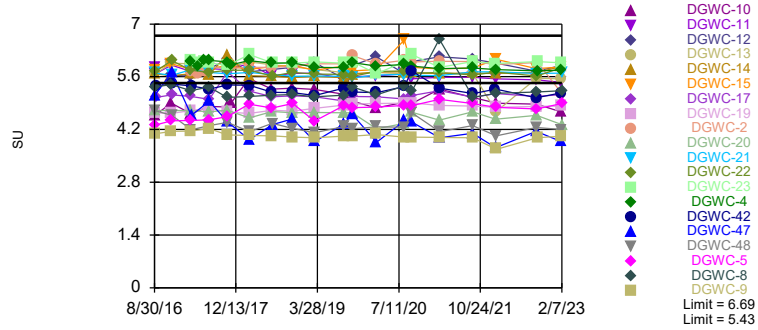


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 57 background values. 47.37% NDs. Annual per-constituent alpha = 0.0224. Individual comparison alpha = 0.0005663 (1 of 2). Comparing 20 points to limit.

Constituent: Fluoride, total Analysis Run 4/17/2023 9:06 AM View: Interwell PL (234) Plant McDonough Client: Southern Company Data: McDonough AP

Exceeds Limit: DGWC-10, DGWC-17, DGWC-19, DGWC-2, DGWC-20, DGWC-42, DGWC-47, DGWC-48, DGWC-5, DGWC-8,...

Prediction Limit  
Interwell Non-parametric

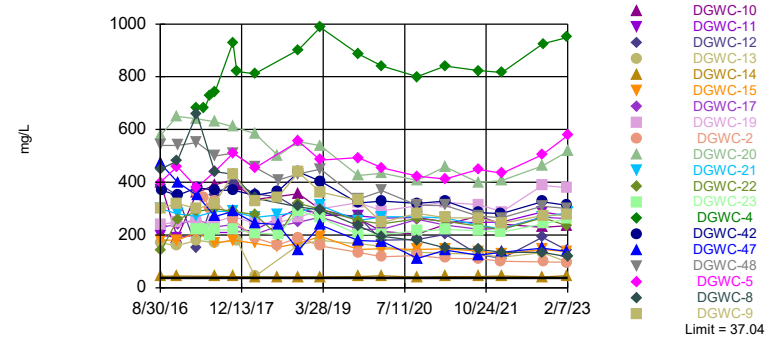


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 59 background values. Annual per-constituent alpha = 0.04163. Individual comparison alpha = 0.001051 (1 of 2). Comparing 20 points to limit.

Constituent: pH, Field Analysis Run 4/17/2023 9:06 AM View: Interwell PL (234)  
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

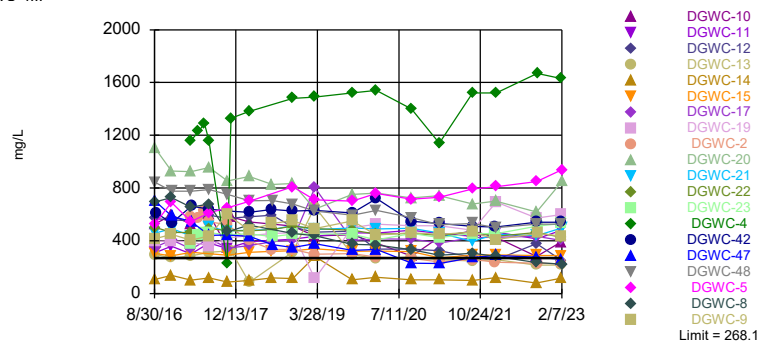


Background Data Summary (based on cube root transformation) (after Kaplan-Meier Adjustment): Mean=1.694, Std. Dev.=0.7439, n=52, 15.38% NDs. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9401, critical = 0.937. Kappa = 2.203 (c=7, w=20, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0003762. Comparing 20 points to limit.

Constituent: Sulfate as SO4 Analysis Run 4/17/2023 9:06 AM View: Interwell PL (234)  
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 square root transformation): Mean=9.894, Std. Dev.=2.938, n=51. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9588, critical = 0.935. Kappa = 2.206 (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 4/17/2023 9:07 AM View: Interwell PL (234)  
Plant McDonough Client: Southern Company Data: McDonough AP





# Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 4/17/2023 9:08 AM View: Interwell PL (234)  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	DGWC-14	DGWC-10	DGWC-11	DGWC-5	DGWC-12	DGWC-19	DGWC-47
3/2/2021	0.96	0.77	0.089		1.3	4.3		2.3	
3/3/2021							3.6		0.17
3/4/2021				0.65					
3/12/2021									
9/8/2021									
9/9/2021			0.08		1.5		2	2.7	
9/10/2021		0.54		0.24		4.7			0.16
9/13/2021	0.86								
1/18/2022									
1/20/2022									
1/21/2022									0.17
1/24/2022						4.4			
1/25/2022	0.98		0.097		1.7		0.7	2.5	
1/26/2022		0.69		0.4					
1/28/2022									
9/7/2022									
9/8/2022									
9/13/2022			0.091						0.18
9/14/2022						5		2.4	
9/15/2022	0.83			0.42	1.7		3.3		
9/16/2022									
9/19/2022		0.8							
9/20/2022									
1/31/2023									
2/1/2023			0.16						
2/2/2023				0.34					
2/3/2023		0.61							0.16
2/6/2023					1.6		0.51	2.2	
2/7/2023	0.74					3.5			



# Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 4/17/2023 9:08 AM View: Interwell PL (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-48	DGWC-20	DGWC-22	DGWC-21	DGWC-15	DGWC-13	DGWC-42	DGWC-17	DGWA-53 (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									0.064
9/8/2021									
9/9/2021				5.8	1.6	0.62			0.065
9/10/2021	0.55	4.8	4.5						
9/13/2021							0.95	0.78	
1/18/2022									
1/20/2022			4.2	6.9			0.83		
1/21/2022		3.6							
1/24/2022	0.61				1.4			0.9	
1/25/2022						0.69			
1/26/2022									
1/28/2022									0.062
9/7/2022									
9/8/2022									0.054
9/13/2022	0.61				1.5		1.1		
9/14/2022								0.87	
9/15/2022		4.2		6.7		0.69			
9/16/2022			4.2						
9/19/2022									
9/20/2022									
1/31/2023									
2/1/2023						0.54	0.94		0.051
2/2/2023					1.3				
2/3/2023	0.59								
2/6/2023			3.8					0.83	
2/7/2023		3		5.6					

# Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 4/17/2023 9:08 AM View: Interwell PL (234)  
 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 4/17/2023 9:08 AM View: Interwell PL (234)  
 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					
9/7/2022		<0.04	<0.04		
9/8/2022					
9/13/2022					
9/14/2022					
9/15/2022					
9/16/2022					
9/19/2022	4.8				
9/20/2022				4.6	0.42
1/31/2023		0.011 (J)	0.0097 (J)		
2/1/2023					
2/2/2023					
2/3/2023	4.5				
2/6/2023				4.4	0.38
2/7/2023					

# Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 4/17/2023 9:08 AM View: Interwell PL (234)

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	DGWC-14	DGWC-10	DGWC-11	DGWC-5	DGWC-12	DGWC-19	DGWC-47
8/30/2016	82.7	64.9							
8/31/2016			9.95	81.7	44.2	82.6			
9/1/2016							80.6	65.6	69.3
9/2/2016									
9/6/2016									
9/7/2016									
12/6/2016	76.8	59.3	10.4	74.2	48.3	73.9			
12/7/2016							82.1	68.3	
12/8/2016									71.1
3/28/2017		71.6				89.1			
3/29/2017	90.5		14.4	79.5	50.5		88.3	68	
3/30/2017									
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			10.5	86.3	50.8		87	70	
7/13/2017									52.5
8/8/2017									
10/24/2017	78.1	92.5		81.5	55				
10/25/2017			9.67			95.6	92.1	77	
10/26/2017									46.7
11/15/2017									
2/27/2018	64.2	73.1	<25	96.2	51.4	108	85.6		
2/28/2018								72	
3/1/2018									44.2
3/2/2018									
3/8/2018									
7/11/2018		88.5	9.9				93.6	82.7	
7/12/2018									41.6
11/6/2018	57	81.1		94.8	62.6	124			
11/7/2018			9.7				73.3	81.7	38.6
11/8/2018									
3/12/2019	54.3	78.1		83.5	61.4	110	62.1		
3/13/2019			9.7					76.9	
3/14/2019									36.6
10/15/2019				79.1	61.2		61.4		
10/16/2019	47.3		9.4			109		85.7	
10/17/2019		75.6							36.2
10/18/2019									
3/2/2020					65.8	116	46.5		
3/3/2020	46	59.5	14	63.6				86.8	
3/4/2020									36
3/9/2020									
9/22/2020		54.7	11.6		72.7	99.2	55.4	103	
9/23/2020	39.3								22.3
9/24/2020				53.1					
3/1/2021									
3/2/2021	35.6	48.8	11.4		65.3	114		93.2	

# Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 4/17/2023 9:08 AM View: Interwell PL (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	DGWC-14	DGWC-10	DGWC-11	DGWC-5	DGWC-12	DGWC-19	DGWC-47
3/3/2021							50.1		25.5
3/4/2021				75.8					
3/12/2021									
9/8/2021									
9/9/2021			11.1		66.8		29.2	93.6	
9/10/2021		47.7		82.4		123			24.4
9/13/2021	36								
1/18/2022									
1/20/2022									
1/21/2022									31
1/24/2022						112			
1/25/2022	36.8		12.4		70.2		28.5	101	
1/26/2022		48.4		76.8					
1/28/2022									
9/7/2022									
9/8/2022									
9/13/2022			11.2						24.8
9/14/2022						117		105	
9/15/2022	29.3			64.4	66.6		41.5		
9/16/2022									
9/19/2022		45.1							
9/20/2022									
1/31/2023									
2/1/2023			11.9 (D)						
2/2/2023				60.8 (D)					
2/3/2023		43.8 (D)							23.7 (D)
2/6/2023					58.8 (D)		28.3 (D)	105 (D)	
2/7/2023	26 (D)					139 (D)			

# Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 4/17/2023 9:08 AM View: Interwell PL (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-48	DGWC-20	DGWC-21	DGWC-22	DGWC-15	DGWC-13	DGWC-42	DGWC-17	DGWA-53 (bg)
8/30/2016									
8/31/2016									
9/1/2016	95.1								
9/2/2016		96.3	70.2	61.6					
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	105		70.1	60.1			45.8	7.92	
3/28/2017									30.8
3/29/2017		95.7		64.7					
3/30/2017	98.6		72.5		36.9	46.3		9.56	
3/31/2017							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	102			67.2			52.3		
8/8/2017									
10/24/2017									30.3
10/25/2017		97.3	75.6	66.8	36.2		50.9	10.9	
10/26/2017	94								
11/15/2017						49.3			
2/27/2018									
2/28/2018		86.3	73.2	62.3	35	<25	45.1	<25	
3/1/2018									
3/2/2018	86.6								
3/8/2018									39.8
7/11/2018		92.4	82.3		37.5		47.8	13 (J)	
7/12/2018	89.1			71					34.7
11/6/2018									
11/7/2018	88	85.9	78.5	60.9	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	74.6			64.8	34.7		43.5		
10/15/2019									
10/16/2019						43.8			17.7
10/17/2019		86.9	79.8		37		44.1		
10/18/2019	72.7			61.7				12.9	
3/2/2020									
3/3/2020			87.4	68.7	37.8	49.3			
3/4/2020	79.7	103					48.8	15.8	
3/9/2020									23.7
9/22/2020		79.2					43.8		15.5
9/23/2020	72.2				35.6	39			
9/24/2020			80	62.6				12.7	
3/1/2021									
3/2/2021		74.7			36	40.5			



# Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 4/17/2023 9:08 AM View: Interwell PL (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-48	DGWC-20	DGWC-21	DGWC-22	DGWC-15	DGWC-13	DGWC-42	DGWC-17	DGWA-53 (bg)
3/3/2021	66		82.1	62.3			38.8	14.3	
3/4/2021									
3/12/2021									18.4
9/8/2021									
9/9/2021			75.3		34.4	38.2			18.3
9/10/2021	68.7	69.8		62.3					
9/13/2021							38.9	15.8	
1/18/2022									
1/20/2022			83.7	67.3			38.1		
1/21/2022		104							
1/24/2022	61.2				33.2			15.6	
1/25/2022						43.2			
1/26/2022									
1/28/2022									19.5
9/7/2022									
9/8/2022									17.2 (D)
9/13/2022	65.3				34.4		34.2		
9/14/2022								16.4	
9/15/2022		70.1	82.2			36.7			
9/16/2022				66.2					
9/19/2022									
9/20/2022									
1/31/2023									
2/1/2023						33.6 (D)	32.7 (D)		14.1 (D)
2/2/2023					32.2 (D)				
2/3/2023	64.1 (D)								
2/6/2023				56.7 (D)				17.5 (D)	
2/7/2023		110 (D)	84.8 (D)						

# Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 4/17/2023 9:08 AM View: Interwell PL (234)  
 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 4/17/2023 9:08 AM View: Interwell PL (234)  
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					
9/7/2022		5.9	6.4 (D)		
9/8/2022					
9/13/2022					
9/14/2022					
9/15/2022					
9/16/2022					
9/19/2022	376				
9/20/2022				90	37.8
1/31/2023		6.2 (D)	5.7 (D)		
2/1/2023					
2/2/2023					
2/3/2023	287 (D)				
2/6/2023				86.4 (D)	35.3 (D)
2/7/2023					

# Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 4/17/2023 9:08 AM View: Interwell PL (234)

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	DGWC-14	DGWC-5	DGWC-11	DGWC-10	DGWC-12	DGWC-19	DGWC-48
8/30/2016	9.7	6							
8/31/2016			3.1	8.6	11	11			
9/1/2016							13	41	18
9/2/2016									
9/6/2016									
9/7/2016									
12/6/2016	9.8	6.2	3.1	8	11	10			
12/7/2016							20 (O)	41	
12/8/2016									17
3/28/2017		6.6		9.5					
3/29/2017	9.9		3.8		12	11	13	42	
3/30/2017									16
3/31/2017									
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									15
8/8/2017									
10/24/2017	9.9	6.7			12	11			
10/25/2017			3.5	9.4			13	41	
10/26/2017									14
11/15/2017						12			
2/27/2018	9.5	8.2	3.4	9.7	12.7	10.8	11.7		
2/28/2018								36.4	
3/1/2018									
3/2/2018									12.8
3/8/2018									
7/11/2018		10.5	3.2				11.3	38.2	
7/12/2018									11.7
11/6/2018	10.5	8.7		10.2	15.2	12.3			
11/7/2018			3.1				11.8	38.8	11.4
11/8/2018									
3/12/2019	10.7	8.5		10.6	14.5	12.1	12.1		
3/13/2019			3.4					40.1	
3/14/2019									10.2
10/15/2019					15.6	9.4	11.6		
10/16/2019	10.4		3.5	11.6				33.2	
10/17/2019		10							
10/18/2019									9.6
3/2/2020				10.5	15		8.9		
3/3/2020	9.6	6.6	4.1			8.4		30.9	
3/4/2020									9.1
3/9/2020									
9/22/2020		8	3.2	10.5	16		10.8	27.6	
9/23/2020	9.1								8
9/24/2020						5.9			
3/1/2021									
3/2/2021	8.6	8.4	3.5	9.8	14.4			27	

# Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 4/17/2023 9:08 AM View: Interwell PL (234)  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	DGWC-14	DGWC-5	DGWC-11	DGWC-10	DGWC-12	DGWC-19	DGWC-48
3/3/2021							10.3		14.2
3/4/2021						7.2			
3/12/2021									
9/8/2021									
9/9/2021			3.3		13.6		8.5	25.4	
9/10/2021		9		9.9		8.2			10.9
9/13/2021	8.2								
1/18/2022									
1/20/2022									
1/21/2022									
1/24/2022				9.9					11.3
1/25/2022	9.3		3.7		14.1		8.1	23.7	
1/26/2022		9.1				9			
1/28/2022									
9/7/2022									
9/8/2022									
9/13/2022			3.5						8.9
9/14/2022				11.2				18.7	
9/15/2022	8.3				12.1	8.2	8.2		
9/16/2022									
9/19/2022		13.2							
9/20/2022									
1/31/2023									
2/1/2023			4.5						
2/2/2023						9.9			
2/3/2023		14.7							8.2
2/6/2023					12.1		6.8	17.9	
2/7/2023	8.7			10					

# Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 4/17/2023 9:08 AM View: Interwell PL (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-47	DGWC-22	DGWC-20	DGWC-21	DGWC-13	DGWC-15	DGWC-17	DGWC-42	DGWA-71 (bg)
8/30/2016									
8/31/2016									
9/1/2016	12								
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	12	26		24			19	32	
3/28/2017									3.6
3/29/2017		30	17						
3/30/2017				24	16	21	20		
3/31/2017	9.1							33	
5/11/2017									
5/12/2017									3.8
5/15/2017									
6/15/2017									
6/16/2017									3.4
7/11/2017									3.1
7/12/2017			18	23	14	21	18		
7/13/2017	5.7	29						33	
8/8/2017									
10/24/2017									3.2
10/25/2017		29	20	23		21	19	32	
10/26/2017	6.6								
11/15/2017					16				3.1
2/27/2018									3.2
2/28/2018		23.4	18.6	19.9	2.7	20.1	17	29	
3/1/2018	10.7								
3/2/2018									
3/8/2018									
7/11/2018			20.4	20.9		21.4	19.5	29.3	
7/12/2018	9.5	26.1							
11/6/2018									2.6
11/7/2018	8.6	25.8	21.5	20.5	16.7	22.4	21.4	28.6	
11/8/2018									
3/12/2019									3.3
3/13/2019			24.8	21.3	12.4		19.9		
3/14/2019	6.6	26.3				24		24.8	
10/15/2019									3.3
10/16/2019					17.4				
10/17/2019	7		24.9	20.1		22		25.8	
10/18/2019		23.4					22		
3/2/2020									3
3/3/2020		21.8		19.7	9.4	22.7			
3/4/2020	4.4		27.8				19.6	23.6	
3/9/2020									
9/22/2020			25.8					22.1	5.2
9/23/2020	3.3				12.6	22.4			
9/24/2020		21.5		20			22.7		
3/1/2021									3.9
3/2/2021			28		13.1	22.8			

# Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 4/17/2023 9:08 AM View: Interwell PL (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-47	DGWC-22	DGWC-20	DGWC-21	DGWC-13	DGWC-15	DGWC-17	DGWC-42	DGWA-71 (bg)
3/3/2021	2.9	20.6		19.7			20.9	20.8	
3/4/2021									
3/12/2021									
9/8/2021									5.9
9/9/2021				20.2	12.9	21.9			
9/10/2021	2.4	17.3	26.2						
9/13/2021							18.2	17.1	
1/18/2022									5.9
1/20/2022		18.1		18.6				18.2	
1/21/2022	3.1		27						
1/24/2022						21.5	19.2		
1/25/2022					14.3				
1/26/2022									
1/28/2022									
9/7/2022									8.2
9/8/2022									
9/13/2022	3.3					21.9		18.7	
9/14/2022							19		
9/15/2022			26.2	17.6	13.7				
9/16/2022		18							
9/19/2022									
9/20/2022									
1/31/2023									7.3
2/1/2023					12.2			19.3	
2/2/2023						22.1			
2/3/2023	2.6								
2/6/2023		16.9					18.8		
2/7/2023			27.9	18.6					

# Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 4/17/2023 9:08 AM View: Interwell PL (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (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	3.7	3.8	29		
3/29/2017					
3/30/2017				17	4.8
3/31/2017					
5/11/2017	2.3				4.4
5/12/2017			29	17	
5/15/2017		2.2			
6/15/2017	2.6	2	28	16	4.8
6/16/2017					
7/11/2017		2.1	28		4.6
7/12/2017	2.3			16	
7/13/2017					
8/8/2017		2.2			
10/24/2017	2.7	2.4	28		4.4
10/25/2017					
10/26/2017				17	
11/15/2017	2.2		27		
2/27/2018		2.5	24.6		4.1
2/28/2018					
3/1/2018				14.8	
3/2/2018					
3/8/2018	2.4				
7/11/2018					3.3
7/12/2018	2.2			15.2	
11/6/2018		2.3	24.8		3.7
11/7/2018	2.3				
11/8/2018				14.6	
3/12/2019		2.5	24.2		3.1
3/13/2019	3.6				
3/14/2019				15.2	
10/15/2019		2.2	20.9		
10/16/2019	2				
10/17/2019					2.8
10/18/2019				14.4	
3/2/2020		1.9	18.7		
3/3/2020					2.3
3/4/2020				13.9	
3/9/2020	1.8				
9/22/2020	1.6	1.9	17		
9/23/2020					2.1
9/24/2020				13.7	
3/1/2021		1.9	15		
3/2/2021					2.1



# Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 4/17/2023 9:08 AM View: Interwell PL (234)  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWC-4	DGWC-23	DGWC-2
3/3/2021				14	
3/4/2021					
3/12/2021	2				
9/8/2021					
9/9/2021	1.8	1.9		12.3	2.1
9/10/2021			13.9		
9/13/2021					
1/18/2022		1.9			
1/20/2022				12	2
1/21/2022					
1/24/2022			12.5		
1/25/2022					
1/26/2022					
1/28/2022	1.8				
9/7/2022		2.1			
9/8/2022	1.6				
9/13/2022					
9/14/2022					
9/15/2022					
9/16/2022					
9/19/2022			11.2		
9/20/2022				11.6	2
1/31/2023		2.2			
2/1/2023	1.9				
2/2/2023					
2/3/2023			11		
2/6/2023				12.4	2.1
2/7/2023					

# Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 4/17/2023 9:08 AM View: Interwell PL (234)

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-9	DGWC-8	DGWC-10	DGWC-14	DGWC-5	DGWC-11	DGWC-12	DGWC-47	DGWC-48
8/30/2016	0.78	0.39							
8/31/2016			1	0.06 (J)	1	0.06 (J)			
9/1/2016							0.02 (J)	1.8	1.5
9/2/2016									
9/6/2016									
9/7/2016									
12/6/2016	1.1	0.47	1.3	0.1 (J)	0.76	0.06 (J)			
12/7/2016							0.16 (J)		
12/8/2016								1.1	1.6
3/28/2017	1.1				1.2				
3/29/2017		0.51	1.5	0.02 (J)		0.04 (J)	0.1 (J)		
3/30/2017									0.86
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			1.7	<0.1		0.03 (J)	0.2 (J)		
7/13/2017								0.84	1.1
8/8/2017									
10/24/2017	1.7	0.82	2.1			<0.1			
10/25/2017				<0.1	1.4		0.6		
10/26/2017								1	1.7
11/15/2017			1.4						
2/27/2018	1.2	0.59	2.3	<0.1	1.3	<0.1	0.34		
2/28/2018									
3/1/2018								1.4	
3/2/2018									1.1
3/8/2018									
7/11/2018	1.3			<0.1			<0.1		
7/12/2018								0.96	0.65
11/6/2018	1.1	0.35	2		<0.3 (J)	<0.1			
11/7/2018				<0.1			<0.3 (J)	0.74	0.63
11/8/2018									
3/12/2019	0.97	0.35	1.7		0.31	0.052 (J)	0.065 (J)		
3/13/2019				0.042 (J)					
3/14/2019								1.6	1.4
8/27/2019	0.68		1.4	<0.1	0.32	<0.1	<0.1		
8/28/2019		0.098 (J)							
8/29/2019								0.52	0.78
10/15/2019			1.4			<0.1	<0.1		
10/16/2019		0.14 (J)		0.052 (J)	0.32				
10/17/2019	1.2							0.46	
10/18/2019									0.46
3/2/2020					0.33	0.064 (J)	0.071 (J)		
3/3/2020	1.4	<0.1	1.5	<0.1				0.74	0.7
3/4/2020									
3/9/2020									
8/11/2020	1.3		1.4	<0.1		<0.1	<0.1		
8/12/2020		0.056 (J)			0.13			0.22	

# Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 4/17/2023 9:08 AM View: Interwell PL (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-9	DGWC-8	DGWC-10	DGWC-14	DGWC-5	DGWC-11	DGWC-12	DGWC-47	DGWC-48
8/13/2020									0.47
8/14/2020									
9/22/2020	0.99			<0.1	0.12	<0.1	<0.1		
9/23/2020		<0.1						0.11	0.32
9/24/2020			0.97						
3/1/2021									
3/2/2021	0.93	0.059 (J)		<0.1	0.15	<0.1			
3/3/2021							0.085 (J)	0.71	0.67
3/4/2021			1.8						
3/12/2021									
9/8/2021									
9/9/2021				<0.1		<0.1	0.099 (J)		
9/10/2021	2		2.2		0.16			0.22	0.47
9/13/2021		0.069 (J)							
1/18/2022									
1/20/2022									
1/21/2022								0.64	
1/24/2022					0.19				0.59
1/25/2022		<0.1		<0.1		<0.1	0.093 (J)		
1/26/2022	1.2		1.8						
1/28/2022									
9/7/2022									
9/8/2022									
9/13/2022				0.059 (J)				0.47	0.43
9/14/2022					0.27				
9/15/2022		0.077 (J)	0.84			0.064 (J)	0.078 (J)		
9/16/2022									
9/19/2022	0.8								
9/20/2022									
1/31/2023									
2/1/2023				0.067 (J)					
2/2/2023			1.1						
2/3/2023	0.9							0.45	0.48
2/6/2023						<0.1	0.1		
2/7/2023		0.13			0.22				

# Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 4/17/2023 9:08 AM View: Interwell PL (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-20	DGWC-21	DGWC-22	DGWC-13	DGWC-15	DGWC-42	DGWC-17	DGWA-71 (bg)
8/30/2016									
8/31/2016									
9/1/2016	0.75								
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	0.37	0.66			0.3	0.11 (J)			
12/8/2016			0.14 (J)	0.12 (J)			0.06 (J)	0.31	
3/28/2017									0.06 (J)
3/29/2017	0.35	0.34		0.11 (J)					
3/30/2017			<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									
6/16/2017									0.008 (J)
7/11/2017									0.007 (J)
7/12/2017	0.34	0.41	0.04 (J)		0.13 (J)	0.07 (J)		0.27 (J)	
7/13/2017				0.09 (J)			<0.1		
8/8/2017									
10/24/2017									<0.1
10/25/2017	0.9	0.68	0.34	0.25 (J)		0.26 (J)	<0.1	0.49	
10/26/2017									
11/15/2017					0.44				<0.1
2/27/2018									<0.1
2/28/2018	1.2	0.76	<0.1	<0.1	0.18	<0.1	<0.1	0.54	
3/1/2018									
3/2/2018									
3/8/2018									
7/11/2018	0.37	1.3	<0.1			<0.1	<0.1	0.15 (J)	
7/12/2018				0.13 (J)					
11/6/2018									<0.1
11/7/2018	<0.3 (J)	<0.3 (J)	<0.1	<0.1	<0.3 (J)	<0.1	<0.1	<0.3 (J)	
11/8/2018									
3/12/2019									<0.1
3/13/2019	0.22 (J)	0.45	0.043 (J)		0.13 (J)			0.084 (J)	
3/14/2019				0.042 (J)		0.057 (J)	<0.1		
8/27/2019								0.24 (J)	<0.1
8/28/2019	0.2				0.091 (J)	<0.1	<0.1		
8/29/2019		0.78	0.079 (J)	0.054 (J)					
10/15/2019									<0.1
10/16/2019	0.23 (J)				0.14 (J)				
10/17/2019		0.26 (J)	<0.1			0.079 (J)	<0.1		
10/18/2019				<0.1				0.086 (J)	
3/2/2020									<0.1
3/3/2020	0.056 (J)		<0.1	<0.1	0.078 (J)	<0.1			
3/4/2020		1.5					<0.1	<0.1	
3/9/2020									
8/11/2020	0.2								<0.1
8/12/2020					0.051 (J)				

# Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 4/17/2023 9:08 AM View: Interwell PL (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-20	DGWC-21	DGWC-22	DGWC-13	DGWC-15	DGWC-42	DGWC-17	DGWA-71 (bg)
8/13/2020		0.9				<0.1	<0.1		
8/14/2020			<0.1	<0.1				0.069 (J)	
9/22/2020	0.084 (J)	0.15					<0.1		<0.1
9/23/2020					0.058 (J)	<0.1			
9/24/2020			<0.1	<0.1				0.056 (J)	
3/1/2021									<0.1
3/2/2021	0.19	1.4			0.084 (J)	<0.1			
3/3/2021			<0.1	<0.1			<0.1	0.085 (J)	
3/4/2021									
3/12/2021									
9/8/2021									<0.1
9/9/2021	0.18		<0.1		0.083 (J)	<0.1			
9/10/2021		0.25		<0.1					
9/13/2021							<0.1	0.063 (J)	
1/18/2022									<0.1
1/20/2022			<0.1	<0.1			<0.1		
1/21/2022		1.3							
1/24/2022						<0.1		<0.1	
1/25/2022	0.16				0.063 (J)				
1/26/2022									
1/28/2022									
9/7/2022									0.056 (J)
9/8/2022									
9/13/2022						0.065 (J)	<0.1		
9/14/2022	0.18							0.1	
9/15/2022		0.69	0.087 (J)		0.095 (J)				
9/16/2022				0.068 (J)					
9/19/2022									
9/20/2022									
1/31/2023									0.05 (J)
2/1/2023					0.09 (J)		<0.1		
2/2/2023						0.065 (J)			
2/3/2023									
2/6/2023	0.22			0.057 (J)				0.096 (J)	
2/7/2023		1.1	0.059 (J)						

# Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 4/17/2023 9:08 AM View: Interwell PL (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-4	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	0.17 (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	0.02 (J)	0.19 (J)	0.21 (J)	0.07 (J)	0.02 (J)
6/16/2017					
7/11/2017	0.02 (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	0.79	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	0.082 (J)			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
8/12/2020	<0.1				

# Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 4/17/2023 9:08 AM View: Interwell PL (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-4	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					
9/9/2021		0.099 (J)	0.084 (J)	0.053 (J)	<0.1
9/10/2021	<0.1				
9/13/2021					
1/18/2022					<0.1
1/20/2022			<0.1	<0.1	
1/21/2022					
1/24/2022	<0.1				
1/25/2022					
1/26/2022					
1/28/2022		0.08 (J)			
9/7/2022					0.061 (J)
9/8/2022		0.11			
9/13/2022					
9/14/2022					
9/15/2022					
9/16/2022					
9/19/2022	0.061 (J)				
9/20/2022			0.11	0.076 (J)	
1/31/2023					0.053 (J)
2/1/2023		0.1			
2/2/2023					
2/3/2023	0.096 (J)				
2/6/2023			0.076 (J)	0.072 (J)	
2/7/2023					





# Prediction Limit

Constituent: pH, Field (SU) Analysis Run 4/17/2023 9:08 AM View: Interwell PL (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	DGWC-5	DGWC-14	DGWC-10	DGWC-11	DGWC-48	DGWC-19	DGWC-47
8/11/2020		4		5.73	4.92	5.68		4.9	
8/12/2020	5.36		4.84						4.43
8/13/2020							4.26		
8/14/2020									
9/22/2020		4	4.83	5.7		5.54		4.91	
9/23/2020	5.21						4.64		4.4
9/24/2020					4.89				
3/1/2021									
3/2/2021	6.6	3.99	5	5.69		5.59		4.84	
3/3/2021							4.14		3.98
3/4/2021					5.27				
3/12/2021									
9/8/2021									
9/9/2021				5.7		5.59		4.82	
9/10/2021		3.98	4.89		5.05		4.3		4.1
9/13/2021	5.05								
1/18/2022									
1/20/2022									
1/21/2022									3.72
1/24/2022			4.79				4.03		
1/25/2022	5.16			5.69		5.54		4.79	
1/26/2022		3.68			4.9				
1/28/2022									
9/7/2022									
9/8/2022									
9/13/2022				5.71			4.25		4.15
9/14/2022			4.75					4.81	
9/15/2022	5.2				4.87	5.52			
9/16/2022									
9/19/2022		3.98							
9/20/2022									
1/31/2023									
2/1/2023				5.87					
2/2/2023					4.67				
2/3/2023		4.02					4.2		3.88
2/6/2023						5.45		4.82	
2/7/2023	5.23		4.89						



# Prediction Limit

Constituent: pH, Field (SU) Analysis Run 4/17/2023 9:08 AM View: Interwell PL (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-20	DGWC-21	DGWC-13	DGWC-15	DGWC-42	DGWC-17	DGWC-12	DGWA-71 (bg)
8/11/2020								5.69	5.96
8/12/2020				5.68					
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	6.06
9/23/2020				5.72	5.85				
9/24/2020	5.69		5.64				5.1		
3/1/2021									5.8
3/2/2021		4.45		5.68	5.81				
3/3/2021	5.71		5.63			5.3	5.23	6.13	
3/4/2021									
3/12/2021									
9/8/2021									5.76
9/9/2021			5.73	5.69	5.83			6.07	
9/10/2021	5.65	4.67							
9/13/2021						5.15	5.06		
1/18/2022									5.51
1/20/2022	5.72		5.73			5.27			
1/21/2022		4.47							
1/24/2022					6.06		5.15		
1/25/2022				4.68				5.96	
1/26/2022									
1/28/2022									
9/7/2022									5.65
9/8/2022									
9/13/2022					5.82	5.04			
9/14/2022							5.08		
9/15/2022		4.58	5.69	5.56				5.75	
9/16/2022	5.62								
9/19/2022									
9/20/2022									
1/31/2023									5.78
2/1/2023				5.54		5.17			
2/2/2023					5.86				
2/3/2023									
2/6/2023	5.84						5.13	5.9	
2/7/2023		4.33	5.7						

# Prediction Limit

Constituent: pH, Field (SU) Analysis Run 4/17/2023 9:08 AM View: Interwell PL (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-4	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	6.01	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	5.87			5.97	
5/15/2017					5.72
6/15/2017	6.03	6.41	5.75	6	5.74
6/16/2017					
7/11/2017	6.04		5.87		5.62
7/12/2017		5.91		5.97	
7/13/2017					
8/8/2017					5.6
10/24/2017	5.99	5.51	5.82		5.71
10/25/2017					
10/26/2017				5.9	
11/15/2017	5.92	6.5			
2/27/2018	6.03		5.85		5.5
2/28/2018					
3/1/2018				6.19	
3/2/2018					
3/8/2018		6.18			
7/10/2018	5.96				5.44
7/11/2018			5.85		
7/12/2018		6.33		5.97	
11/6/2018	5.97		5.88		5.71
11/7/2018		6.22			
11/8/2018				5.96	
3/12/2019	5.85		5.94		5.52
3/13/2019		6			
3/14/2019				5.99	
8/27/2019	5.84		5.94		5.53
8/28/2019		6.04			
8/29/2019				5.96	
9/17/2019					
10/15/2019	5.98				5.61
10/16/2019		6.69			
10/17/2019			6.16		
10/18/2019				5.99	
3/2/2020	5.88				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 4/17/2023 9:08 AM View: Interwell PL (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-4	DGWA-53 (bg)	DGWC-2	DGWC-23	DGWA-70A (bg)
8/11/2020			6.04		5.86
8/12/2020	5.93				
8/13/2020		6.17		6	
8/14/2020					
9/22/2020	5.88	6.43			6.01
9/23/2020			5.99		
9/24/2020				6.19	
3/1/2021	5.82				5.43
3/2/2021			6.01		
3/3/2021				5.85	
3/4/2021					
3/12/2021		6.38			
9/8/2021					
9/9/2021		6.41	6	6	5.5
9/10/2021	5.83				
9/13/2021					
1/18/2022					5.5
1/20/2022			5.93	5.95	
1/21/2022					
1/24/2022	5.79				
1/25/2022					
1/26/2022					
1/28/2022		6.35			
9/7/2022					5.6
9/8/2022		6.32			
9/13/2022					
9/14/2022					
9/15/2022					
9/16/2022					
9/19/2022	5.76				
9/20/2022			5.98	6	
1/31/2023					5.59
2/1/2023		6.42			
2/2/2023					
2/3/2023	5.77				
2/6/2023			5.17	5.97	
2/7/2023					

# Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 4/17/2023 9:08 AM View: Interwell PL (234)

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-9	DGWC-8	DGWC-14	DGWC-11	DGWC-10	DGWC-5	DGWC-47	DGWC-48	DGWC-19
8/30/2016	300	450							
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	320	480	45	190	190	460			
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	320	440				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	327	340	41	220	335	453			
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	438	307		302	356	556			
11/7/2018			41.3				143	432	266
11/8/2018									
3/12/2019	362	295		275	297	484			
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	247	195	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	266	152	42.6	250		412			324

# Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 4/17/2023 9:08 AM View: Interwell PL (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-9	DGWC-8	DGWC-14	DGWC-11	DGWC-10	DGWC-5	DGWC-47	DGWC-48	DGWC-19
3/3/2021							143	312	
3/4/2021					240				
3/12/2021									
9/8/2021									
9/9/2021			42.3	247					315
9/10/2021	264				271	449	123	272	
9/13/2021		145							
1/18/2022									
1/20/2022									
1/21/2022							135		
1/24/2022						434		265	
1/25/2022		134	44.4	250					288
1/26/2022	245				241				
1/28/2022									
9/7/2022									
9/8/2022									
9/13/2022			41.2				150	309	
9/14/2022						505			388
9/15/2022		134		287	229				
9/16/2022									
9/19/2022	274								
9/20/2022									
1/31/2023									
2/1/2023			45.9 (D)						
2/2/2023					235 (D)				
2/3/2023	277 (D)						138 (D)	301 (D)	
2/6/2023				273 (D)					379 (D)
2/7/2023		118 (D)				577 (D)			

# Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 4/17/2023 9:08 AM View: Interwell PL (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-12	DGWC-21	DGWC-22	DGWC-20	DGWC-15	DGWC-13	DGWC-17	DGWC-42	DGWC-4
8/30/2016									
8/31/2016									
9/1/2016	390								
9/2/2016		300	140	580					
9/6/2016					180	170			
9/7/2016							230	370	
12/6/2016									
12/7/2016	350			650	180	160			
12/8/2016		280	260				240	350	
3/28/2017									680
3/29/2017	150		290	640					
3/30/2017		270			210	180	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	350	290		630	170	170	230		
7/13/2017			300					370	
8/8/2017									
10/24/2017									930
10/25/2017	400	290	290	610	180		240	370	
10/26/2017									
11/15/2017						180			820
2/27/2018	356								811
2/28/2018		267	278	584	168	43.5	203	350	
3/1/2018									
3/2/2018									
3/8/2018									
7/11/2018	344	277		501	154		234	366	
7/12/2018			197						
11/6/2018									902
11/7/2018	298	286	320	554	168	162	248	439	
11/8/2018									
3/12/2019	284								987
3/13/2019		312		539		179	268		
3/14/2019			297		195			404	
10/15/2019	270								888
10/16/2019						167			
10/17/2019		255		426	146			321	
10/18/2019			254				222		
3/2/2020	181								840
3/3/2020		269	242		148	157			
3/4/2020				434			222	329	
3/9/2020									
9/22/2020	183			408				320	800
9/23/2020					146	134			
9/24/2020		269	262				259		
3/1/2021									840
3/2/2021				458	148	131			



# Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 4/17/2023 9:08 AM View: Interwell PL (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-12	DGWC-21	DGWC-22	DGWC-20	DGWC-15	DGWC-13	DGWC-17	DGWC-42	DGWC-4
3/3/2021	203	264	252				237	329	
3/4/2021									
3/12/2021									
9/8/2021									
9/9/2021	126	238			139	127			
9/10/2021			234	399					823
9/13/2021							222	285	
1/18/2022									
1/20/2022		223	221					281	
1/21/2022				406					
1/24/2022					127		225		816
1/25/2022	111					116			
1/26/2022									
1/28/2022									
9/7/2022									
9/8/2022									
9/13/2022					145			326	
9/14/2022							268		
9/15/2022	191	268		462		133			
9/16/2022			265						
9/19/2022									925
9/20/2022									
1/31/2023									
2/1/2023						97.5 (D)		313 (D)	
2/2/2023					137 (D)				
2/3/2023									949 (D)
2/6/2023	142 (D)		235 (D)				262 (D)		
2/7/2023		285 (D)		517 (D)					

# Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 4/17/2023 9:08 AM View: Interwell PL (234)  
 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	17	2.7	49		
3/29/2017					
3/30/2017				220	360
3/31/2017					
5/11/2017			21		340
5/12/2017	17			220	
5/15/2017		1			
6/15/2017		0.86 (J)	16	200	300
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 4/17/2023 9:08 AM View: Interwell PL (234)  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWA-70A (bg)	DGWA-53 (bg)	DGWC-23	DGWC-2
3/3/2021				221	
3/4/2021					
3/12/2021			8.8		
9/8/2021	6.1				
9/9/2021		<1	11.9	217	110
9/10/2021					
9/13/2021					
1/18/2022	6.3	<1			
1/20/2022				211	101
1/21/2022					
1/24/2022					
1/25/2022					
1/26/2022					
1/28/2022			13.1		
9/7/2022	7 (D)	<1			
9/8/2022			12 (D)		
9/13/2022					
9/14/2022					
9/15/2022					
9/16/2022					
9/19/2022					
9/20/2022				242	98.4
1/31/2023	6.8 (D)	<1 (D)			
2/1/2023			13.3 (D)		
2/2/2023					
2/3/2023					
2/6/2023				262 (D)	96.4 (D)
2/7/2023					

# Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 4/17/2023 9:08 AM View: Interwell PL (234)

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	DGWC-14	DGWC-10	DGWC-11	DGWC-5	DGWC-12	DGWC-47	DGWC-48
8/30/2016	693	414							
8/31/2016			106	525	307	524			
9/1/2016							568	704	845
9/2/2016									
9/6/2016									
9/7/2016									
12/6/2016	727	449	138	595	358	690			
12/7/2016							559		
12/8/2016								587	777
3/28/2017		404				545			
3/29/2017	654		102	525	300		550		
3/30/2017									775
3/31/2017								545	
5/11/2017									
5/12/2017									
5/15/2017									
6/15/2017									
6/16/2017									
7/11/2017	679	436				612			
7/12/2017			118	598	382		594		
7/13/2017								441	789
8/8/2017									
10/24/2017	468	599		353	342				
10/25/2017			88			650	571		
10/26/2017								444	753
11/15/2017				582					
2/27/2018	520	482	99	542	393	698	582		
2/28/2018									
3/1/2018								435	
3/2/2018									704
3/8/2018									
7/11/2018		532	119				593		
7/12/2018								372	705
11/6/2018	456	554		512	412	809			
11/7/2018			113				504	348	678
11/8/2018									
3/12/2019	438	493		436	433	711	465		
3/13/2019			280						
3/14/2019								378	625
10/15/2019				447	461		472		
10/16/2019	374		104			702			
10/17/2019		550						327	
10/18/2019									593
3/2/2020					458	759	338		
3/3/2020	369	444	123	382					
3/4/2020								334	630
3/9/2020									
9/22/2020		461	105		481	716	338		
9/23/2020	333							229	575
9/24/2020				283					
3/1/2021									
3/2/2021	291	449	105		456	730			

# Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 4/17/2023 9:08 AM View: Interwell PL (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	DGWC-14	DGWC-10	DGWC-11	DGWC-5	DGWC-12	DGWC-47	DGWC-48
3/3/2021							325	228	521
3/4/2021				430					
3/12/2021									
9/8/2021									
9/9/2021			99		433		275		
9/10/2021		466		474		792		274	532
9/13/2021	306								
1/18/2022									
1/20/2022									
1/21/2022								289	
1/24/2022						810			500
1/25/2022	281		120		465		258		
1/26/2022		409		425					
1/28/2022									
9/7/2022									
9/8/2022									
9/13/2022			80					277	527
9/14/2022						850			
9/15/2022	234			280	414		377		
9/16/2022									
9/19/2022		456							
9/20/2022									
1/31/2023									
2/1/2023			116 (D)						
2/2/2023				390 (D)					
2/3/2023		437 (D)						259 (D)	527 (D)
2/6/2023					481 (D)		251 (D)		
2/7/2023	223 (D)					939 (D)			

# Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 4/17/2023 9:08 AM View: Interwell PL (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-20	DGWC-21	DGWC-22	DGWC-15	DGWC-13	DGWC-42	DGWC-17	DGWA-53 (bg)
8/30/2016									
8/31/2016									
9/1/2016	396								
9/2/2016		1100	459	502					
9/6/2016					304	296			
9/7/2016							611	353	
12/6/2016									
12/7/2016	400	930			287	270			
12/8/2016			491	464			535	408	
3/28/2017									202
3/29/2017	390	923		462					
3/30/2017			436		312	287		338	
3/31/2017							661		
5/11/2017									241
5/12/2017									
5/15/2017									
6/15/2017									251
6/16/2017									
7/11/2017									
7/12/2017	360	956	505		490 (O)	312		417	218
7/13/2017				492			641		
8/8/2017									
10/24/2017									671 (O)
10/25/2017	423	854	474	477	290		626	343	
10/26/2017									
11/15/2017						325			241
2/27/2018									
2/28/2018	440	888	480	476	313	84	616	364	
3/1/2018									
3/2/2018									
3/8/2018									213
7/11/2018	457	826	485		320		638	393	
7/12/2018				486					198
11/6/2018									
11/7/2018	461	834	516	511	325	314	626	408	200
11/8/2018									
3/12/2019									
3/13/2019	113	639	486			656		802	201
3/14/2019				491	340		630		
10/15/2019									
10/16/2019	500					296			126
10/17/2019		751	498		319		612		
10/18/2019				480				403	
3/2/2020									
3/3/2020	526		490	452	323	263			
3/4/2020		761					721	414	
3/9/2020									171
9/22/2020	513	724					547		142
9/23/2020					317	278			
9/24/2020			494	455				411	
3/1/2021									
3/2/2021	513	742			272	256			

# Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 4/17/2023 9:08 AM View: Interwell PL (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-20	DGWC-21	DGWC-22	DGWC-15	DGWC-13	DGWC-42	DGWC-17	DGWA-53 (bg)
3/3/2021			459	442			531	384	
3/4/2021									
3/12/2021									124
9/8/2021									
9/9/2021	480		396		292	246			131
9/10/2021		678		468					
9/13/2021							508	424	
1/18/2022									
1/20/2022			451	434			504		
1/21/2022		702							
1/24/2022					294			426	
1/25/2022	694					256			
1/26/2022									
1/28/2022									155
9/7/2022									
9/8/2022									129
9/13/2022					289		540		
9/14/2022	572							434	
9/15/2022		618	440			216			
9/16/2022				462					
9/19/2022									
9/20/2022									
1/31/2023									
2/1/2023						216 (D)	541 (D)		116 (D)
2/2/2023					288 (D)				
2/3/2023									
2/6/2023	600 (D)			427 (D)				403 (D)	
2/7/2023		848 (D)	498 (D)						

# Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 4/17/2023 9:08 AM View: Interwell PL (234)  
 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	1160	39	90		
3/29/2017					
3/30/2017				380	580
3/31/2017					
5/11/2017					573
5/12/2017	1230		92	438	
5/15/2017		88			
6/15/2017	1290	65		458	626
6/16/2017			100		
7/11/2017	1160	25	59		542
7/12/2017				461	
7/13/2017					
8/8/2017		53			
10/24/2017	229	49	117		523
10/25/2017					
10/26/2017				446	
11/15/2017	1330		90		
2/27/2018	1380	43	79		401
2/28/2018					
3/1/2018				454	
3/2/2018					
3/8/2018					
7/11/2018					334
7/12/2018				432	
11/6/2018	1480	65	85		334
11/7/2018					
11/8/2018				450	
3/12/2019	1490	43	74		297
3/13/2019					
3/14/2019				453	
10/15/2019	1520	70	89		
10/16/2019					
10/17/2019					302
10/18/2019				448	
3/2/2020	1540	52	67		
3/3/2020					277
3/4/2020				408	
3/9/2020					
9/22/2020	1400	46	74		
9/23/2020					267
9/24/2020				456	
3/1/2021	1140	25	62		
3/2/2021					241



# Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 4/17/2023 9:08 AM View: Interwell PL (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-4	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-23	DGWC-2
3/3/2021				425	
3/4/2021					
3/12/2021					
9/8/2021			75		
9/9/2021		53		455	260
9/10/2021	1520				
9/13/2021					
1/18/2022		54	76		
1/20/2022				453	238
1/21/2022					
1/24/2022	1520				
1/25/2022					
1/26/2022					
1/28/2022					
9/7/2022		34	82		
9/8/2022					
9/13/2022					
9/14/2022					
9/15/2022					
9/16/2022					
9/19/2022	1670				
9/20/2022				511	230
1/31/2023		163 (D)	87 (D)		
2/1/2023					
2/2/2023					
2/3/2023	1630 (D)				
2/6/2023				532 (D)	226 (D)
2/7/2023					

FIGURE E.

# Appendix III Trend Test - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/17/2023, 9:06 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	DGWC-10	-0.6211	-96	-58	Yes	16	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-11	0.09247	98	58	Yes	16	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-12	-1.307	-106	-68	Yes	18	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-13	-0.058	-60	-58	Yes	16	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-17	0.03144	66	63	Yes	17	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-19	-0.1625	-76	-63	Yes	17	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-2	-0.1965	-130	-63	Yes	17	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-20	-0.6003	-100	-63	Yes	17	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-4	0.2297	72	58	Yes	16	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-47	-0.02938	-111	-63	Yes	17	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-48	-0.06191	-100	-63	Yes	17	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-8	-0.3367	-107	-58	Yes	16	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-9	-0.2386	-113	-63	Yes	17	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWA-53 (bg)	-3.645	-92	-63	Yes	17	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-11	3.864	80	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-19	6.285	117	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-21	1.923	76	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-23	2.652	75	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-4	16.89	78	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-48	-6.518	-114	-63	Yes	17	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-5	7.382	80	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-9	-5.367	-68	-63	Yes	17	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWA-53 (bg)	-0.1584	-92	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-15	0.4002	65	63	Yes	17	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-19	-3.8	-114	-63	Yes	17	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-20	2.211	115	63	Yes	17	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-21	-0.9889	-104	-63	Yes	17	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-22	-2.105	-109	-63	Yes	17	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-23	-0.8411	-111	-63	Yes	17	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-4	-3.331	-130	-63	Yes	17	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-42	-2.748	-112	-63	Yes	17	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-5	0.2628	60	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-9	0.9651	85	63	Yes	17	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWC-47	-0.1489	-101	-74	Yes	19	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWC-48	-0.1513	-99	-74	Yes	19	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-19	0.03563	84	74	Yes	19	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-2	0.04562	78	74	Yes	19	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-20	-0.02556	-72	-68	Yes	18	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-47	-0.1608	-86	-74	Yes	19	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-5	0.07246	83	74	Yes	19	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-9	-0.02086	-104	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWA-71 (bg)	-0.9093	-96	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-10	-28.4	-65	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-12	-40.94	-85	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-13	-10.01	-66	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-15	-8.166	-96	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-19	19.26	91	63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-2	-41.9	-128	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-20	-42.49	-84	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-42	-11.65	-73	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-47	-39.19	-103	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-48	-50.27	-113	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-8	-61.83	-113	-58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWA-53 (bg)	-20.92	-95	-63	Yes	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-10	-34.77	-73	-63	Yes	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-11	25.35	78	58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-19	32.5	93	63	Yes	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-20	-52.53	-90	-63	Yes	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-4	76.75	84	63	Yes	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-48	-54.53	-115	-63	Yes	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-5	46.69	96	58	Yes	16	0	n/a	n/a	0.01	NP

# Appendix III Trend Test - All Results

Plant McDonough   Client: Southern Company   Data: McDonough AP   Printed 4/17/2023, 9:06 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	DGWA-53 (bg)	-0.003677	-55	-63	No	17	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWA-70A (bg)	0	15	63	No	17	52.94	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWA-71 (bg)	0.0003125	18	58	No	16	25	n/a	n/a	0.01	NP
<b>Boron, total (mg/L)</b>	<b>DGWC-10</b>	<b>-0.6211</b>	<b>-96</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron, total (mg/L)</b>	<b>DGWC-11</b>	<b>0.09247</b>	<b>98</b>	<b>58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron, total (mg/L)</b>	<b>DGWC-12</b>	<b>-1.307</b>	<b>-106</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron, total (mg/L)</b>	<b>DGWC-13</b>	<b>-0.058</b>	<b>-60</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron, total (mg/L)	DGWC-14	0.008427	58	63	No	17	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-15	0	3	63	No	17	0	n/a	n/a	0.01	NP
<b>Boron, total (mg/L)</b>	<b>DGWC-17</b>	<b>0.03144</b>	<b>66</b>	<b>63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron, total (mg/L)</b>	<b>DGWC-19</b>	<b>-0.1625</b>	<b>-76</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron, total (mg/L)</b>	<b>DGWC-2</b>	<b>-0.1965</b>	<b>-130</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron, total (mg/L)</b>	<b>DGWC-20</b>	<b>-0.6003</b>	<b>-100</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron, total (mg/L)	DGWC-21	0.1752	28	63	No	17	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-22	0.04124	17	63	No	17	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-23	0.06789	28	63	No	17	0	n/a	n/a	0.01	NP
<b>Boron, total (mg/L)</b>	<b>DGWC-4</b>	<b>0.2297</b>	<b>72</b>	<b>58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron, total (mg/L)	DGWC-42	-0.008097	-19	-63	No	17	0	n/a	n/a	0.01	NP
<b>Boron, total (mg/L)</b>	<b>DGWC-47</b>	<b>-0.02938</b>	<b>-111</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron, total (mg/L)</b>	<b>DGWC-48</b>	<b>-0.06191</b>	<b>-100</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron, total (mg/L)	DGWC-5	-0.162	-23	-58	No	16	0	n/a	n/a	0.01	NP
<b>Boron, total (mg/L)</b>	<b>DGWC-8</b>	<b>-0.3367</b>	<b>-107</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron, total (mg/L)</b>	<b>DGWC-9</b>	<b>-0.2386</b>	<b>-113</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium, total (mg/L)</b>	<b>DGWA-53 (bg)</b>	<b>-3.645</b>	<b>-92</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	DGWA-70A (bg)	0	0	63	No	17	5.882	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWA-71 (bg)	-0.365	-43	-58	No	16	6.25	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-10	-2.571	-42	-58	No	16	0	n/a	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>DGWC-11</b>	<b>3.864</b>	<b>80</b>	<b>58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium, total (mg/L)</b>	<b>DGWC-19</b>	<b>6.285</b>	<b>117</b>	<b>63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	DGWC-20	-3.566	-26	-63	No	17	0	n/a	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>DGWC-21</b>	<b>1.923</b>	<b>76</b>	<b>63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	DGWC-22	0.02704	5	63	No	17	0	n/a	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>DGWC-23</b>	<b>2.652</b>	<b>75</b>	<b>63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium, total (mg/L)</b>	<b>DGWC-4</b>	<b>16.89</b>	<b>78</b>	<b>58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium, total (mg/L)</b>	<b>DGWC-48</b>	<b>-6.518</b>	<b>-114</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium, total (mg/L)</b>	<b>DGWC-5</b>	<b>7.382</b>	<b>80</b>	<b>58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium, total (mg/L)</b>	<b>DGWC-9</b>	<b>-5.367</b>	<b>-68</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride, Total (mg/L)</b>	<b>DGWA-53 (bg)</b>	<b>-0.1584</b>	<b>-92</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	DGWA-70A (bg)	-0.05005	-42	-63	No	17	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWA-71 (bg)	0.4815	54	63	No	17	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-10	-0.4615	-51	-63	No	17	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-11	0.4257	37	58	No	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-13	-0.3196	-24	-58	No	16	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>DGWC-15</b>	<b>0.4002</b>	<b>65</b>	<b>63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	DGWC-17	0.2341	20	63	No	17	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>DGWC-19</b>	<b>-3.8</b>	<b>-114</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride, Total (mg/L)</b>	<b>DGWC-20</b>	<b>2.211</b>	<b>115</b>	<b>63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride, Total (mg/L)</b>	<b>DGWC-21</b>	<b>-0.9889</b>	<b>-104</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride, Total (mg/L)</b>	<b>DGWC-22</b>	<b>-2.105</b>	<b>-109</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride, Total (mg/L)</b>	<b>DGWC-23</b>	<b>-0.8411</b>	<b>-111</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride, Total (mg/L)</b>	<b>DGWC-4</b>	<b>-3.331</b>	<b>-130</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride, Total (mg/L)</b>	<b>DGWC-42</b>	<b>-2.748</b>	<b>-112</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride, Total (mg/L)</b>	<b>DGWC-5</b>	<b>0.2628</b>	<b>60</b>	<b>58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	DGWC-8	-0.1997	-52	-58	No	16	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>DGWC-9</b>	<b>0.9651</b>	<b>85</b>	<b>63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Fluoride, total (mg/L)	DGWA-53 (bg)	-0.00125	-12	-81	No	20	10	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWA-70A (bg)	0	38	68	No	18	61.11	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWA-71 (bg)	0	8	74	No	19	73.68	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWC-10	0	-8	-74	No	19	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWC-20	0.06079	34	74	No	19	5.263	n/a	n/a	0.01	NP
<b>Fluoride, total (mg/L)</b>	<b>DGWC-47</b>	<b>-0.1489</b>	<b>-101</b>	<b>-74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Fluoride, total (mg/L)</b>	<b>DGWC-48</b>	<b>-0.1513</b>	<b>-99</b>	<b>-74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Fluoride, total (mg/L)	DGWC-9	0	-5	-74	No	19	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWA-53 (bg)	0.02167	23	81	No	20	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWA-70A (bg)	-0.02248	-34	-74	No	19	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWA-71 (bg)	0.000959	2	81	No	20	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-10	0.00524	6	81	No	20	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-17	0.002621	15	81	No	20	0	n/a	n/a	0.01	NP

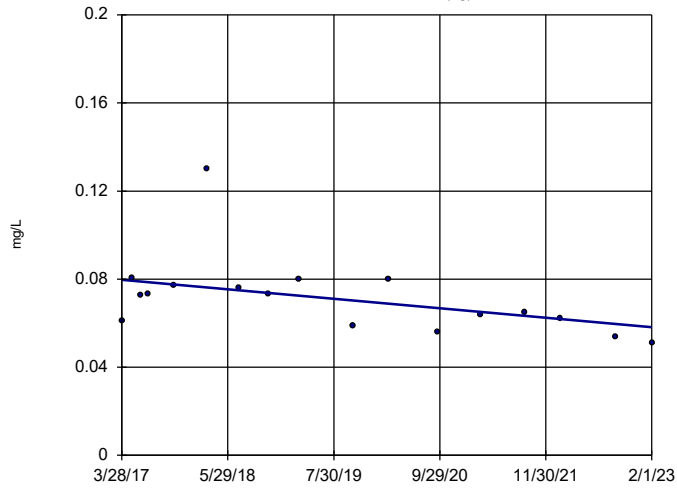
# Appendix III Trend Test - All Results

Plant McDonough    Client: Southern Company    Data: McDonough AP    Printed 4/17/2023, 9:06 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
<b>pH, Field (SU)</b>	<b>DGWC-19</b>	<b>0.03563</b>	<b>84</b>	<b>74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>pH, Field (SU)</b>	<b>DGWC-2</b>	<b>0.04562</b>	<b>78</b>	<b>74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>pH, Field (SU)</b>	<b>DGWC-20</b>	<b>-0.02556</b>	<b>-72</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
pH, Field (SU)	DGWC-42	-0.02876	-64	-74	No	19	0	n/a	n/a	0.01	NP
<b>pH, Field (SU)</b>	<b>DGWC-47</b>	<b>-0.1608</b>	<b>-86</b>	<b>-74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
pH, Field (SU)	DGWC-48	-0.02866	-51	-74	No	19	0	n/a	n/a	0.01	NP
<b>pH, Field (SU)</b>	<b>DGWC-5</b>	<b>0.07246</b>	<b>83</b>	<b>74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
pH, Field (SU)	DGWC-8	0	3	74	No	19	0	n/a	n/a	0.01	NP
<b>pH, Field (SU)</b>	<b>DGWC-9</b>	<b>-0.02086</b>	<b>-104</b>	<b>-74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	DGWA-53 (bg)	-0.5457	-29	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWA-70A (bg)	0	-25	-63	No	17	47.06	n/a	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWA-71 (bg)</b>	<b>-0.9093</b>	<b>-96</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-10</b>	<b>-28.4</b>	<b>-65</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	DGWC-11	11.63	56	58	No	16	0	n/a	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-12</b>	<b>-40.94</b>	<b>-85</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-13</b>	<b>-10.01</b>	<b>-66</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	DGWC-14	0.06231	6	58	No	16	0	n/a	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-15</b>	<b>-8.166</b>	<b>-96</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	DGWC-17	1.393	14	63	No	17	0	n/a	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-19</b>	<b>19.26</b>	<b>91</b>	<b>63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-2</b>	<b>-41.9</b>	<b>-128</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-20</b>	<b>-42.49</b>	<b>-84</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	DGWC-21	-5.15	-56	-63	No	17	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-22	-6.488	-29	-63	No	17	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-23	1.375	22	63	No	17	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-4	29.26	56	63	No	17	0	n/a	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-42</b>	<b>-11.65</b>	<b>-73</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-47</b>	<b>-39.19</b>	<b>-103</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-48</b>	<b>-50.27</b>	<b>-113</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	DGWC-5	8.175	22	58	No	16	0	n/a	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-8</b>	<b>-61.83</b>	<b>-113</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	DGWC-9	-10.15	-42	-63	No	17	0	n/a	n/a	0.01	NP
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWA-53 (bg)</b>	<b>-20.92</b>	<b>-95</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids [TDS] (mg/L)	DGWA-70A (bg)	0.1124	4	63	No	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWA-71 (bg)	-2.859	-36	-63	No	17	0	n/a	n/a	0.01	NP
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-10</b>	<b>-34.77</b>	<b>-73</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-11</b>	<b>25.35</b>	<b>78</b>	<b>58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids [TDS] (mg/L)	DGWC-15	-2.265	-14	-58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-17	9.024	56	63	No	17	0	n/a	n/a	0.01	NP
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-19</b>	<b>32.5</b>	<b>93</b>	<b>63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-20</b>	<b>-52.53</b>	<b>-90</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids [TDS] (mg/L)	DGWC-21	-1.37	-6	-63	No	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-22	-6.728	-63	-63	No	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-23	5.203	37	63	No	17	0	n/a	n/a	0.01	NP
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-4</b>	<b>76.75</b>	<b>84</b>	<b>63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids [TDS] (mg/L)	DGWC-42	-18.61	-51	-63	No	17	0	n/a	n/a	0.01	NP
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-48</b>	<b>-54.53</b>	<b>-115</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-5</b>	<b>46.69</b>	<b>96</b>	<b>58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids [TDS] (mg/L)	DGWC-9	-1.745	-5	-63	No	17	0	n/a	n/a	0.01	NP

### Sen's Slope Estimator

DGWA-53 (bg)



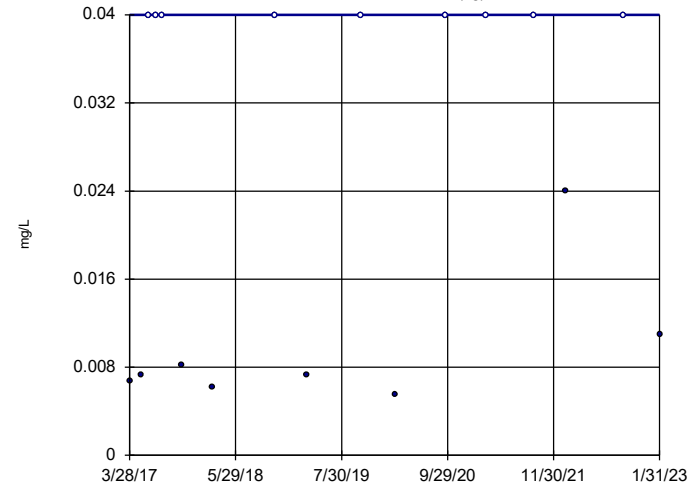
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 Mann-Kendall  
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 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Boron, total Analysis Run 4/17/2023 9:03 AM View: A3 Trend Test (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

Hollow symbols indicate censored values.

### Sen's Slope Estimator

DGWA-70A (bg)



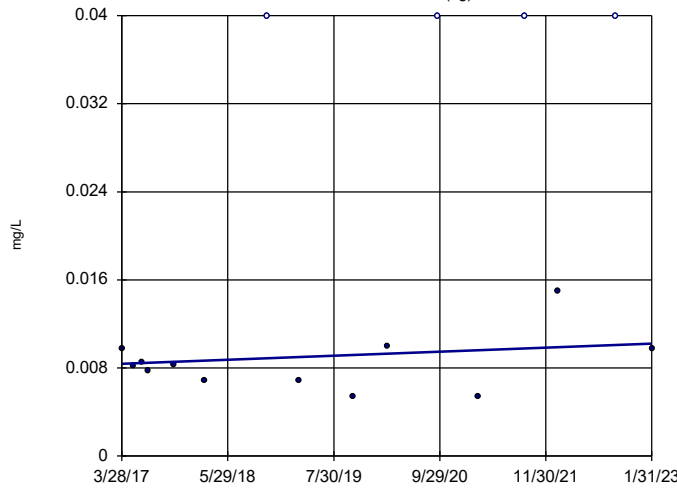
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 Slope = 0  
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 Mann-Kendall  
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 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Boron, total Analysis Run 4/17/2023 9:03 AM View: A3 Trend Test (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

Hollow symbols indicate censored values.

### Sen's Slope Estimator

DGWA-71 (bg)

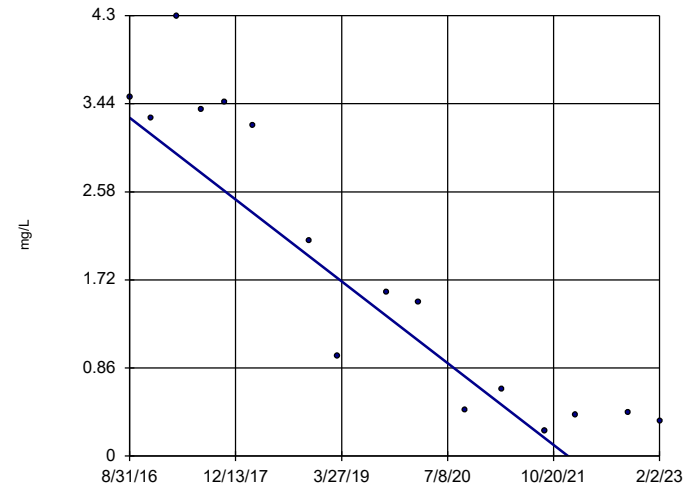


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 units per year.  
 Mann-Kendall  
 statistic = 18  
 critical = 58  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Boron, total Analysis Run 4/17/2023 9:03 AM View: A3 Trend Test (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-10

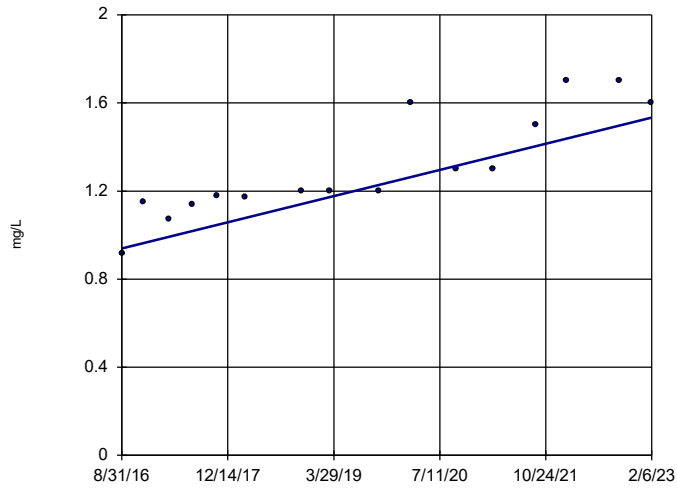


n = 16  
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 units per year.  
 Mann-Kendall  
 statistic = -96  
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 Decreasing trend  
 significant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Boron, total Analysis Run 4/17/2023 9:03 AM View: A3 Trend Test (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

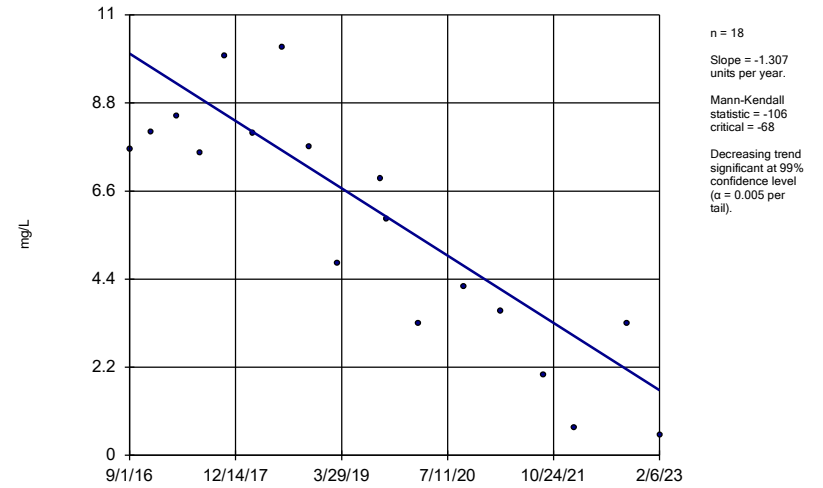
DGWC-11



Constituent: Boron, total Analysis Run 4/17/2023 9:03 AM View: A3 Trend Test (234)  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

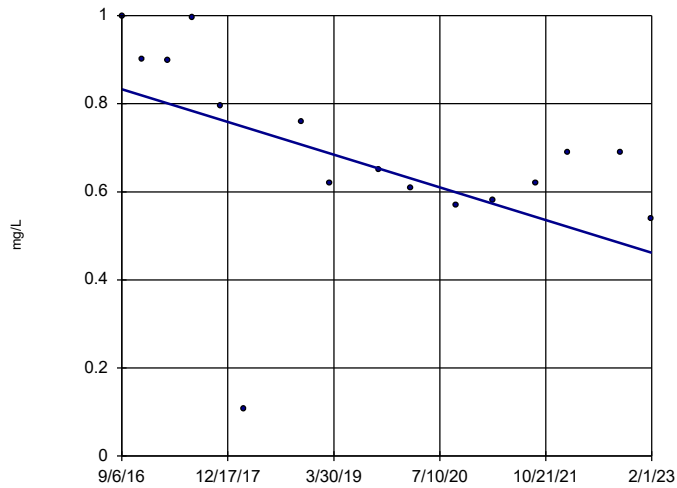
DGWC-12



Constituent: Boron, total Analysis Run 4/17/2023 9:03 AM View: A3 Trend Test (234)  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

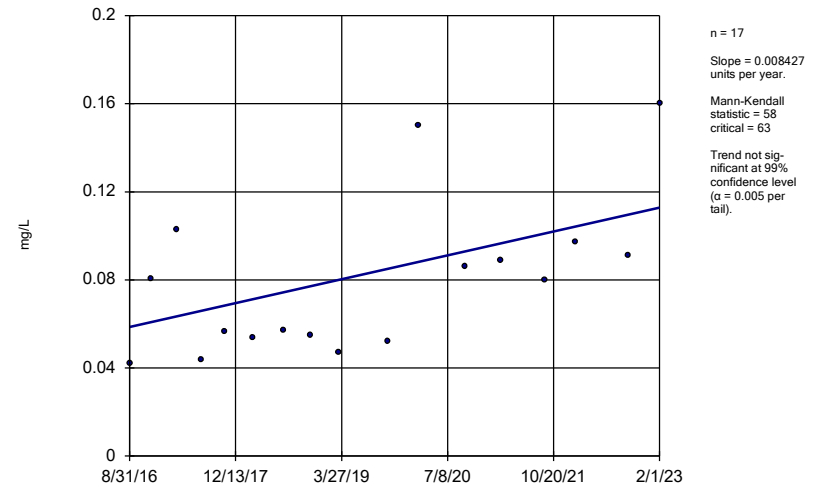
DGWC-13



Constituent: Boron, total Analysis Run 4/17/2023 9:03 AM View: A3 Trend Test (234)  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

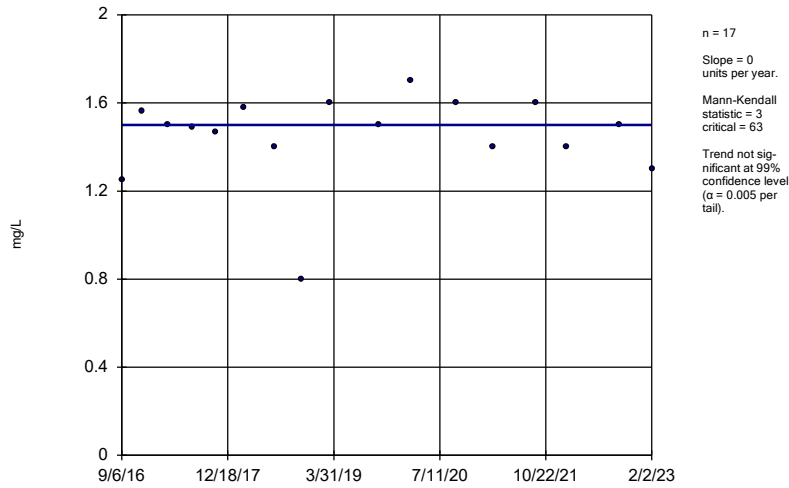
DGWC-14



Constituent: Boron, total Analysis Run 4/17/2023 9:03 AM View: A3 Trend Test (234)  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

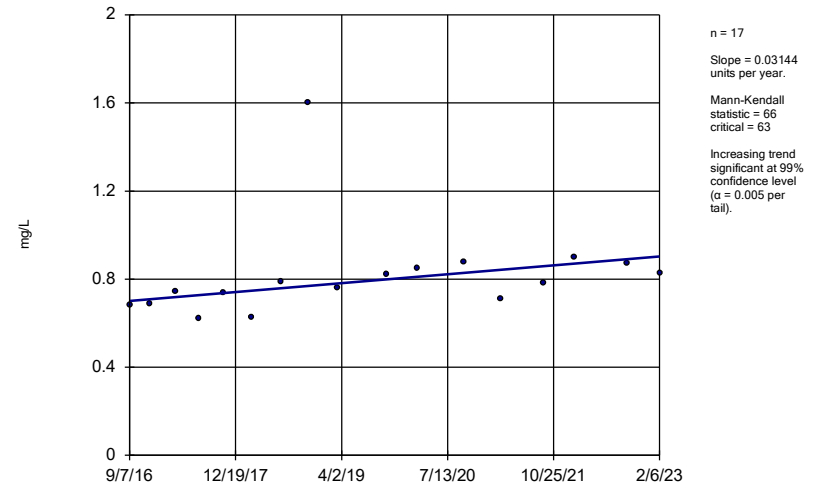
DGWC-15



Constituent: Boron, total Analysis Run 4/17/2023 9:03 AM View: A3 Trend Test (234)  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

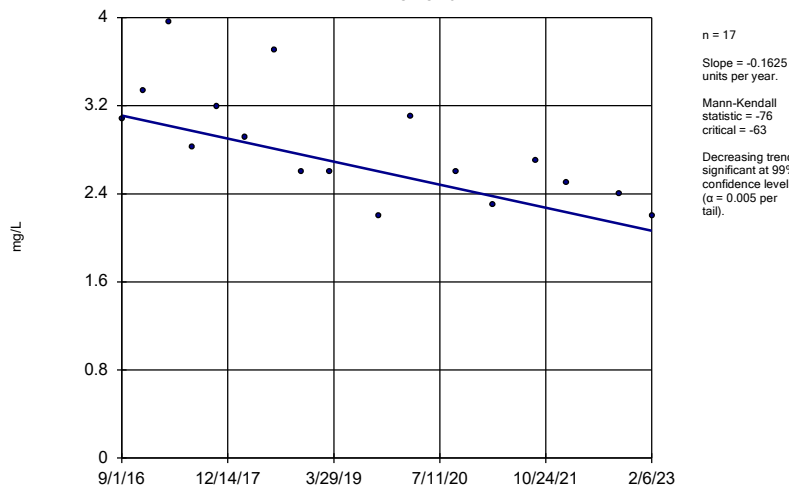
DGWC-17



Constituent: Boron, total Analysis Run 4/17/2023 9:03 AM View: A3 Trend Test (234)  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

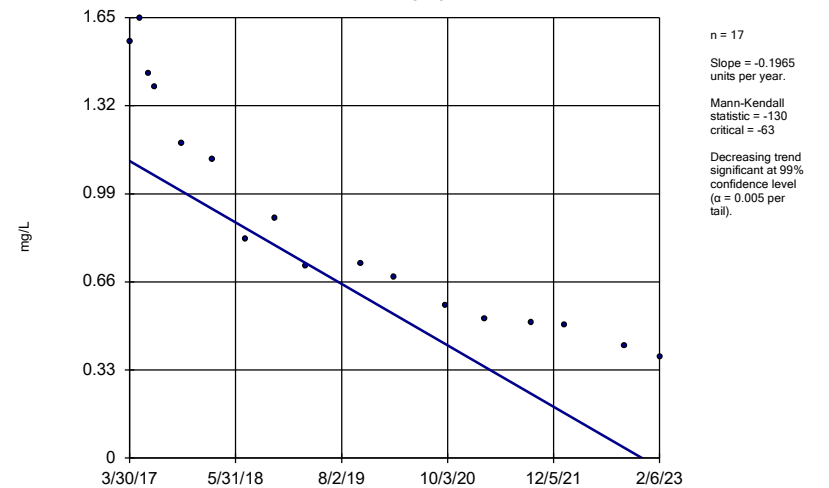
DGWC-19



Constituent: Boron, total Analysis Run 4/17/2023 9:03 AM View: A3 Trend Test (234)  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-2

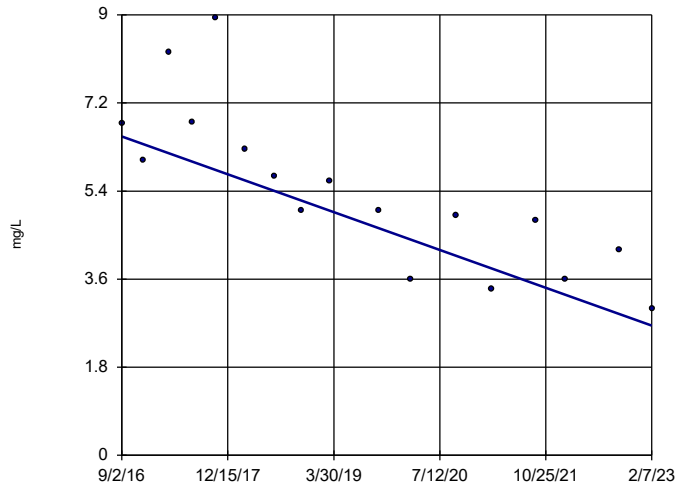


Constituent: Boron, total Analysis Run 4/17/2023 9:03 AM View: A3 Trend Test (234)  
Plant McDonough Client: Southern Company Data: McDonough AP



### Sen's Slope Estimator

DGWC-20

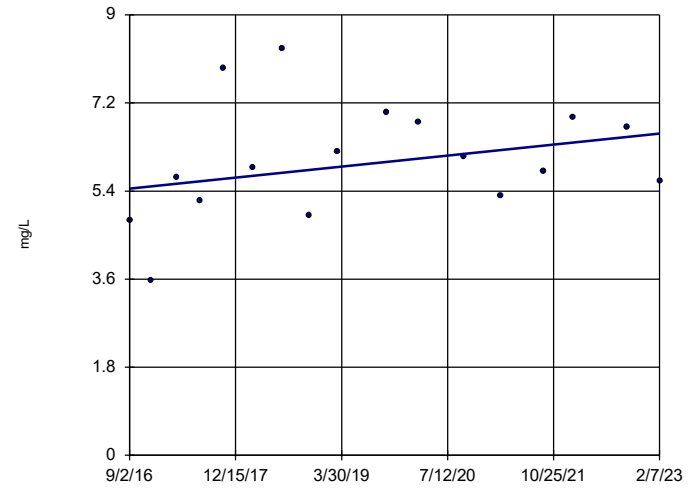


n = 17  
 Slope = -0.6003 units per year.  
 Mann-Kendall statistic = -100  
 critical = -63  
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 4/17/2023 9:03 AM View: A3 Trend Test (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-21

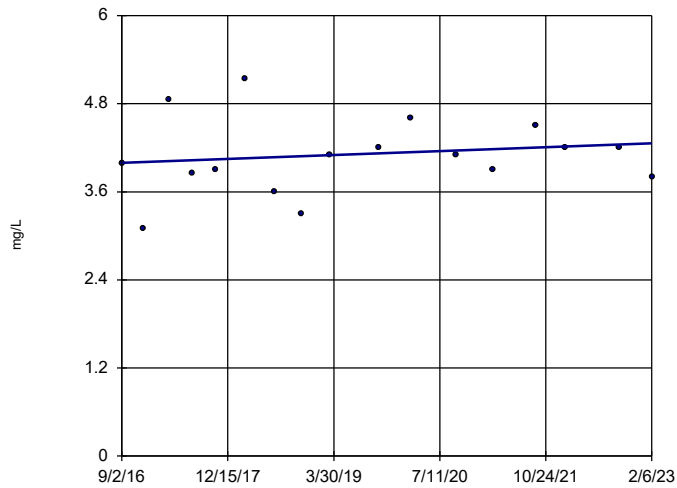


n = 17  
 Slope = 0.1752 units per year.  
 Mann-Kendall statistic = 28  
 critical = 63  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 4/17/2023 9:03 AM View: A3 Trend Test (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-22

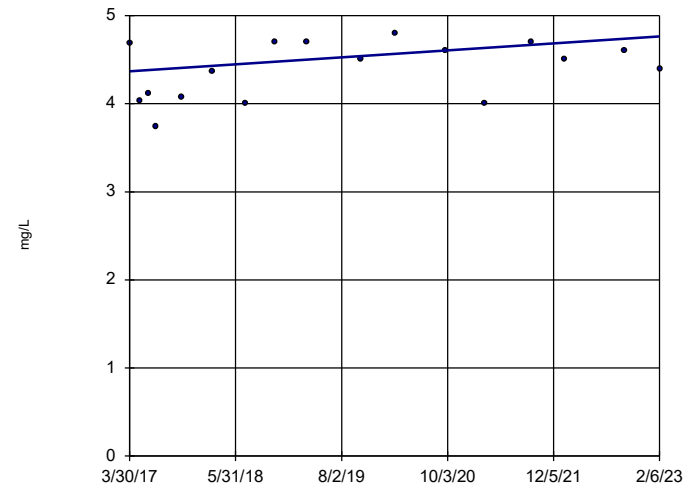


n = 17  
 Slope = 0.04124 units per year.  
 Mann-Kendall statistic = 17  
 critical = 63  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 4/17/2023 9:03 AM View: A3 Trend Test (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-23

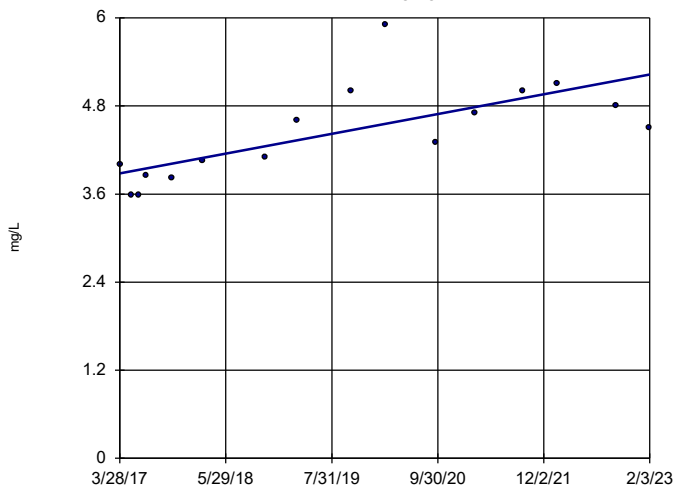


n = 17  
 Slope = 0.06789 units per year.  
 Mann-Kendall statistic = 28  
 critical = 63  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 4/17/2023 9:03 AM View: A3 Trend Test (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-4

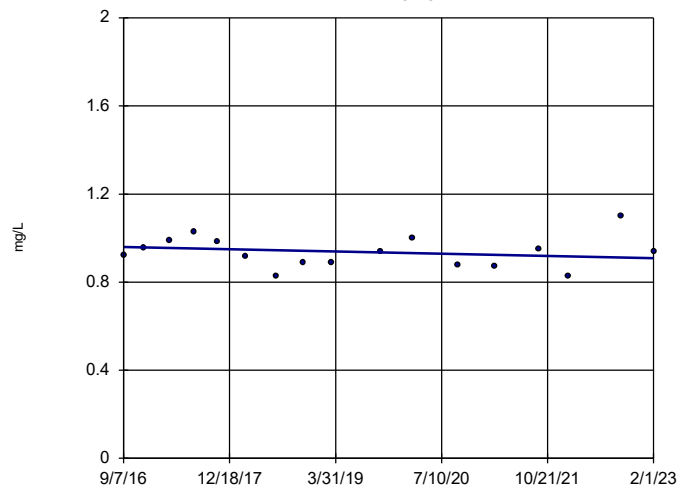


n = 16  
 Slope = 0.2297 units per year.  
 Mann-Kendall statistic = 72  
 critical = 58  
 Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 4/17/2023 9:03 AM View: A3 Trend Test (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-42

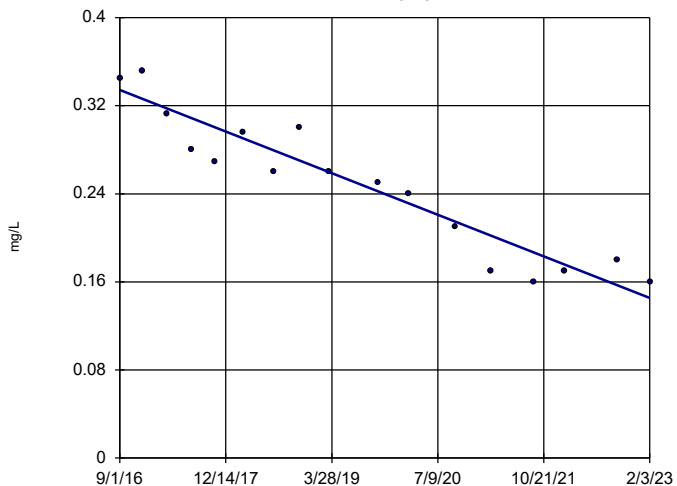


n = 17  
 Slope = -0.008097 units per year.  
 Mann-Kendall statistic = -19  
 critical = -63  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 4/17/2023 9:03 AM View: A3 Trend Test (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-47

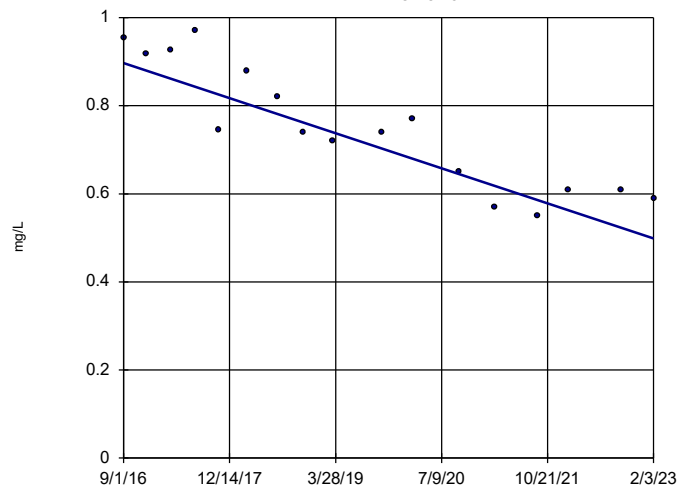


n = 17  
 Slope = -0.02938 units per year.  
 Mann-Kendall statistic = -111  
 critical = -63  
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 4/17/2023 9:03 AM View: A3 Trend Test (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-48

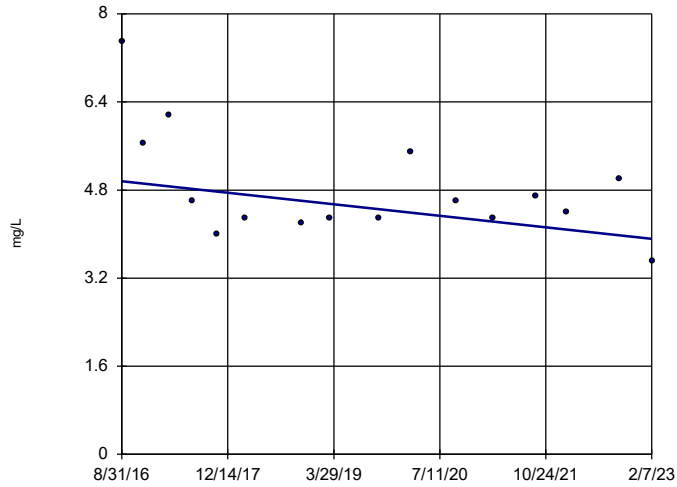


n = 17  
 Slope = -0.06191 units per year.  
 Mann-Kendall statistic = -100  
 critical = -63  
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 4/17/2023 9:03 AM View: A3 Trend Test (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-5

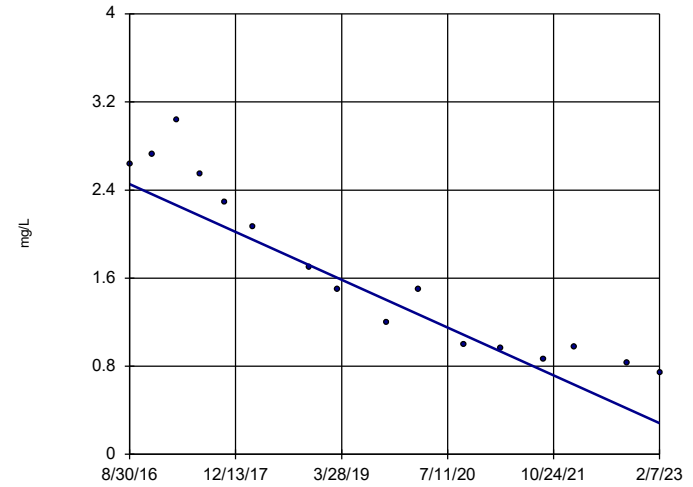


n = 16  
 Slope = -0.162  
 units per year.  
 Mann-Kendall  
 statistic = -23  
 critical = -58  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Boron, total Analysis Run 4/17/2023 9:03 AM View: A3 Trend Test (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-8

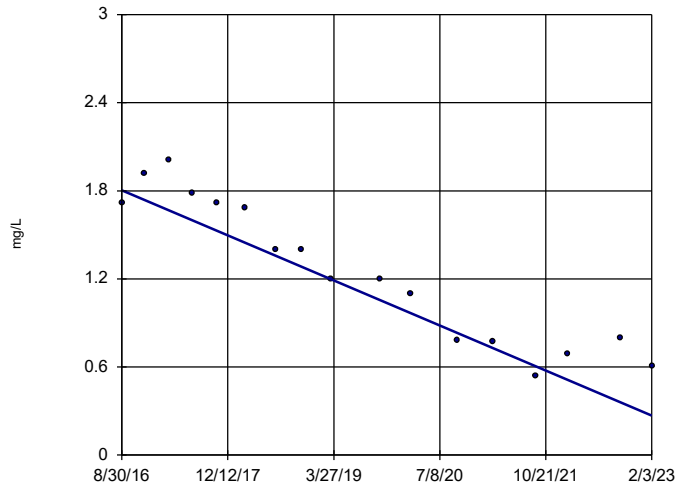


n = 16  
 Slope = -0.3367  
 units per year.  
 Mann-Kendall  
 statistic = -107  
 critical = -58  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Boron, total Analysis Run 4/17/2023 9:03 AM View: A3 Trend Test (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-9

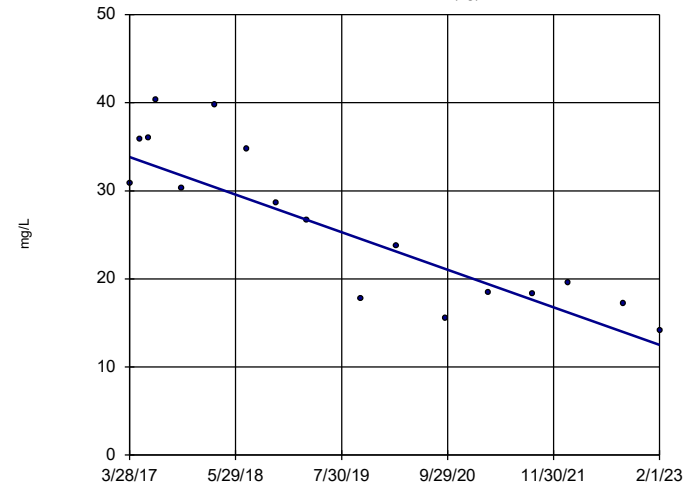


n = 17  
 Slope = -0.2386  
 units per year.  
 Mann-Kendall  
 statistic = -113  
 critical = -63  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Boron, total Analysis Run 4/17/2023 9:03 AM View: A3 Trend Test (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWA-53 (bg)

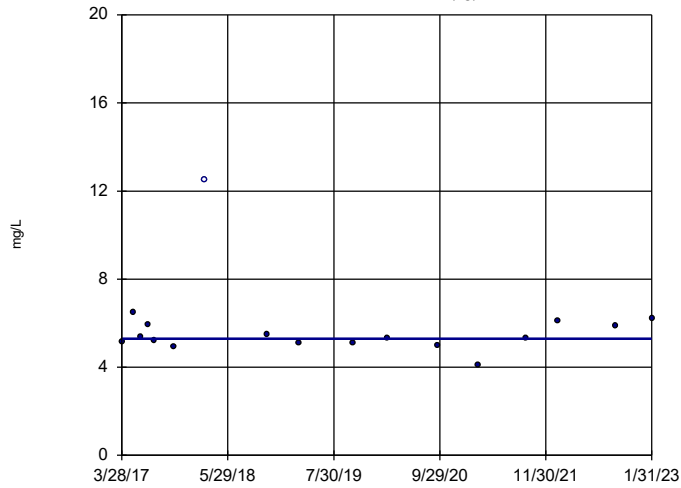


n = 17  
 Slope = -3.645  
 units per year.  
 Mann-Kendall  
 statistic = -92  
 critical = -63  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Calcium, total Analysis Run 4/17/2023 9:03 AM View: A3 Trend Test (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWA-70A (bg)

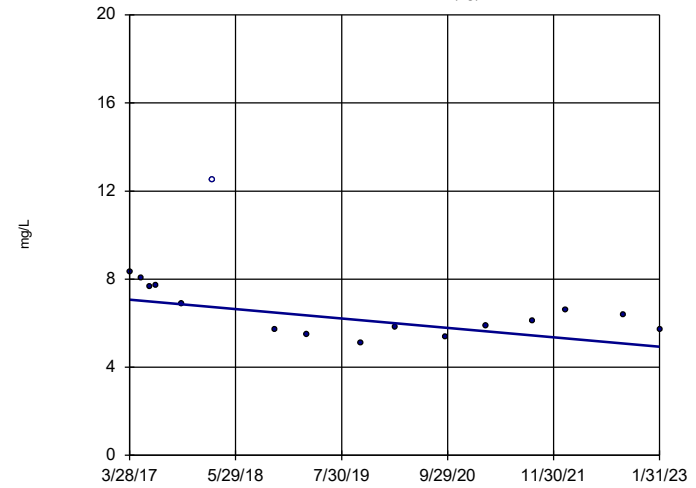


n = 17  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 63  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Calcium, total Analysis Run 4/17/2023 9:03 AM View: A3 Trend Test (234)  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWA-71 (bg)

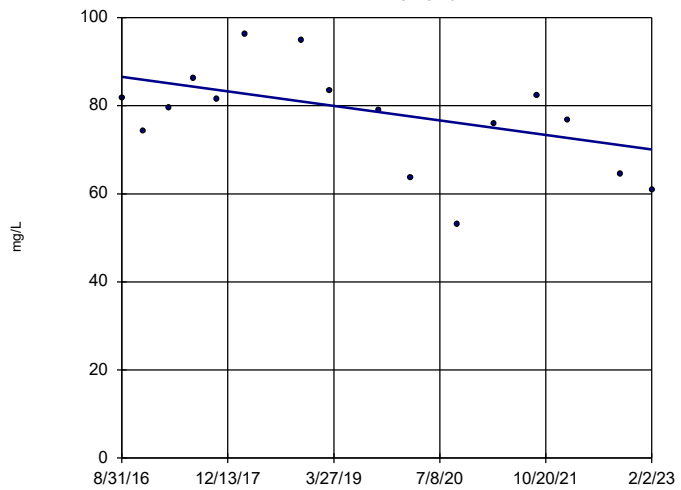


n = 16  
Slope = -0.365  
units per year.  
Mann-Kendall  
statistic = -43  
critical = -58  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Calcium, total Analysis Run 4/17/2023 9:03 AM View: A3 Trend Test (234)  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-10

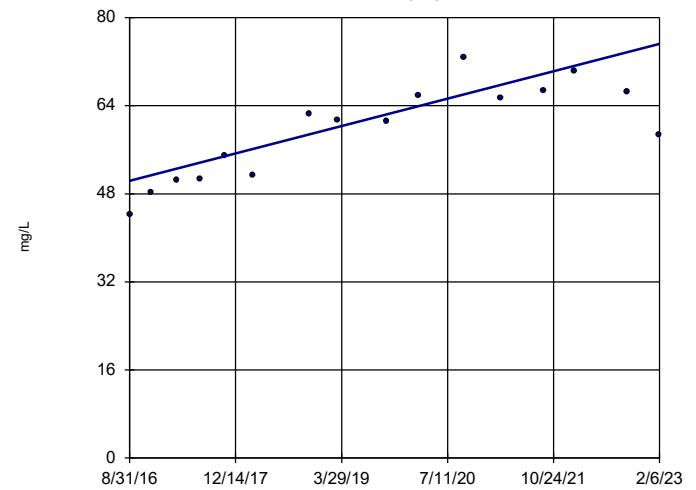


n = 16  
Slope = -2.571  
units per year.  
Mann-Kendall  
statistic = -42  
critical = -58  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Calcium, total Analysis Run 4/17/2023 9:03 AM View: A3 Trend Test (234)  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-11

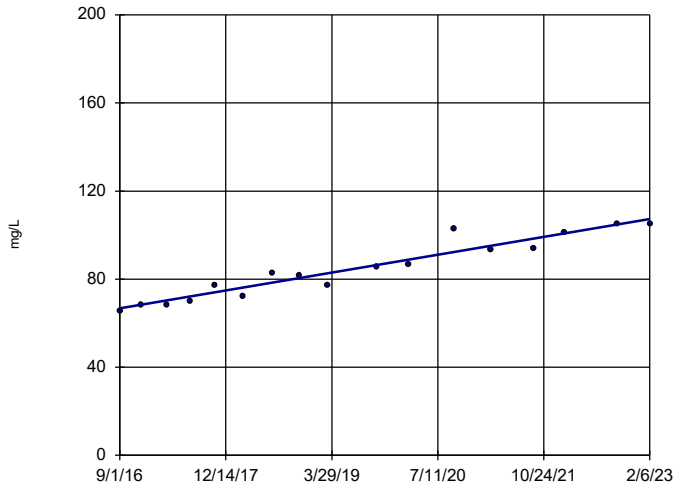


n = 16  
Slope = 3.864  
units per year.  
Mann-Kendall  
statistic = 80  
critical = 58  
Increasing trend  
significant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Calcium, total Analysis Run 4/17/2023 9:03 AM View: A3 Trend Test (234)  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-19

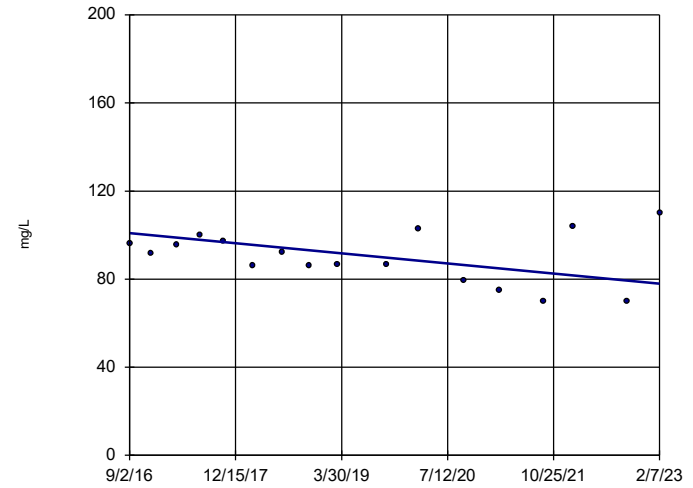


n = 17  
Slope = 6.285  
units per year.  
Mann-Kendall  
statistic = 117  
critical = 63  
Increasing trend  
significant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Calcium, total Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-20

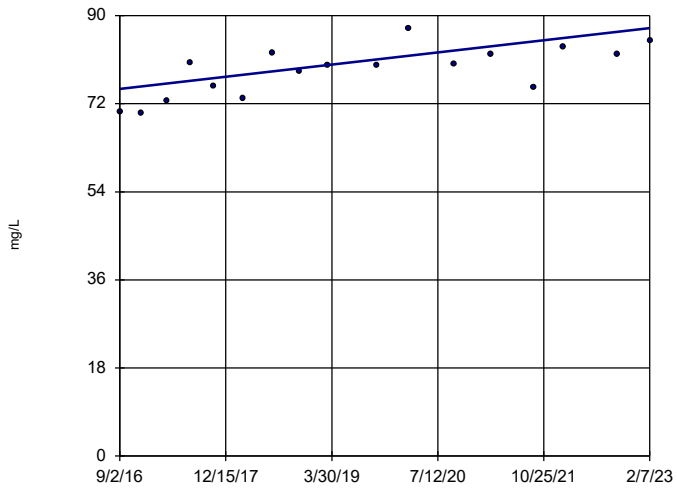


n = 17  
Slope = -3.566  
units per year.  
Mann-Kendall  
statistic = -26  
critical = -63  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Calcium, total Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-21

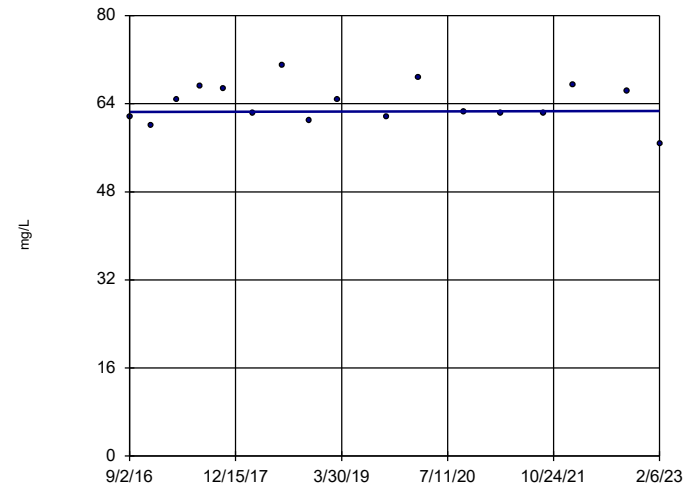


n = 17  
Slope = 1.923  
units per year.  
Mann-Kendall  
statistic = 76  
critical = 63  
Increasing trend  
significant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Calcium, total Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-22

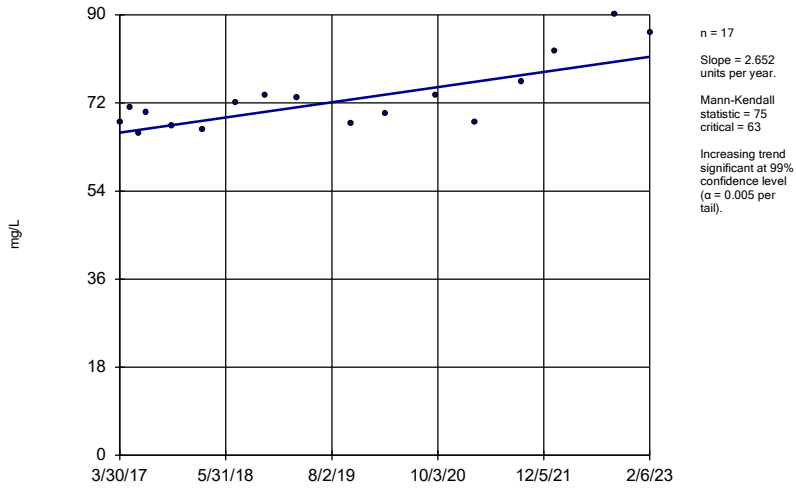


n = 17  
Slope = 0.02704  
units per year.  
Mann-Kendall  
statistic = 5  
critical = 63  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Calcium, total Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

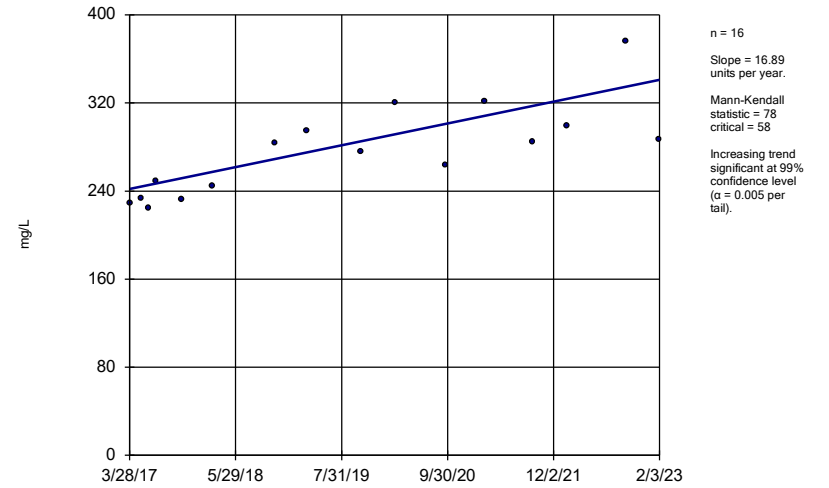
DGWC-23



Constituent: Calcium, total Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

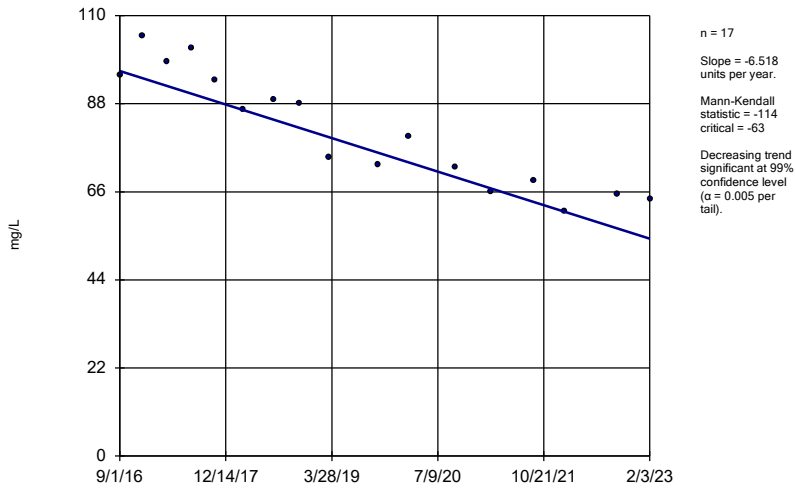
DGWC-4



Constituent: Calcium, total Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

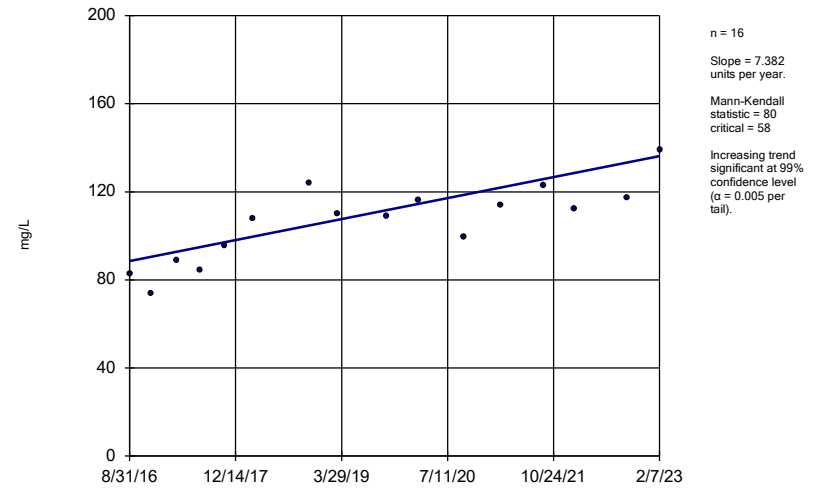
DGWC-48



Constituent: Calcium, total Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

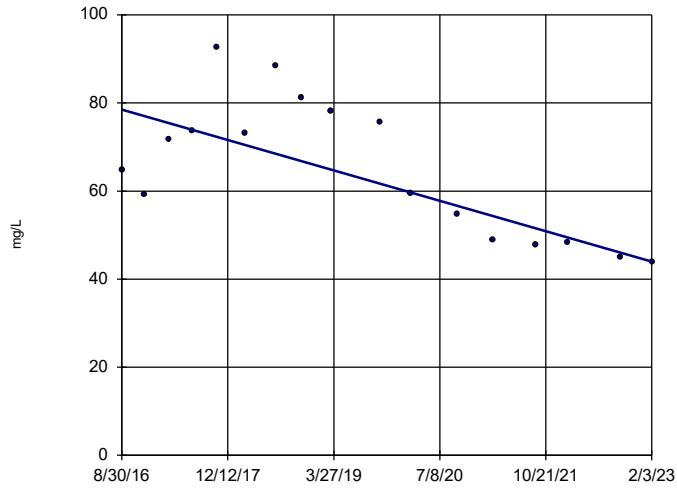
DGWC-5



Constituent: Calcium, total Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

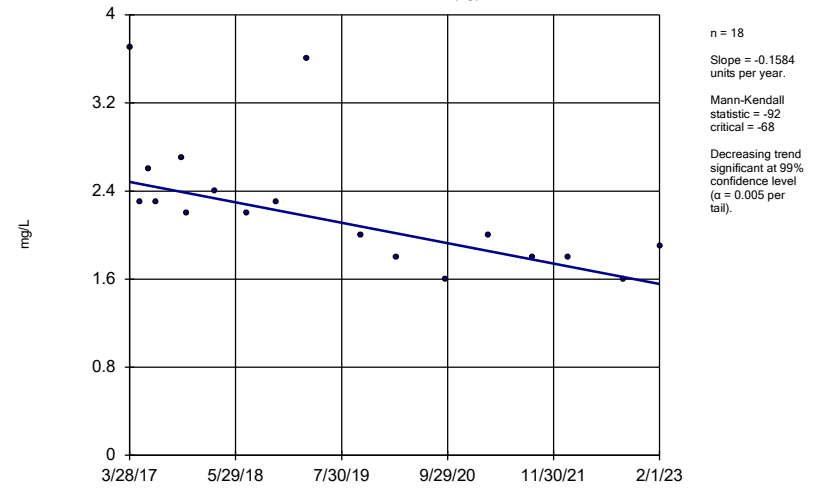
DGWC-9



Constituent: Calcium, total Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

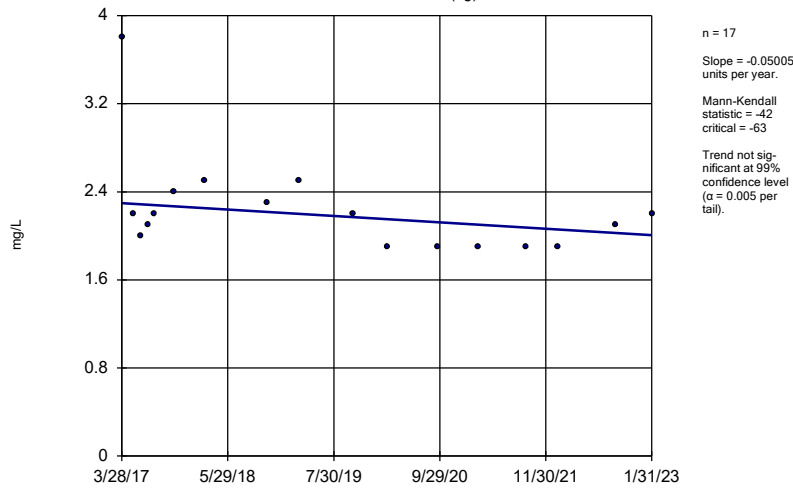
DGWA-53 (bg)



Constituent: Chloride, Total Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

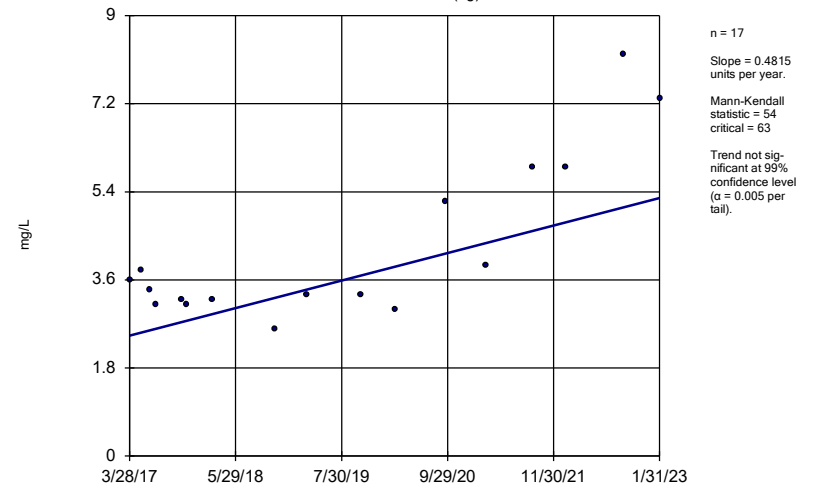
DGWA-70A (bg)



Constituent: Chloride, Total Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

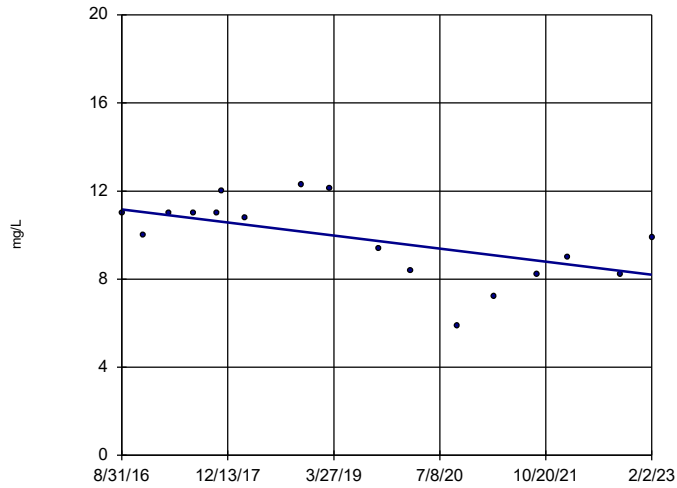
DGWA-71 (bg)



Constituent: Chloride, Total Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

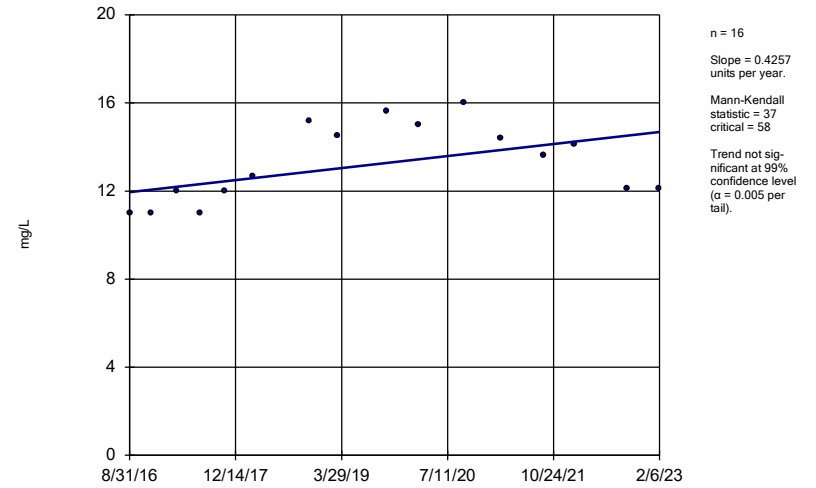
DGWC-10



Constituent: Chloride, Total Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

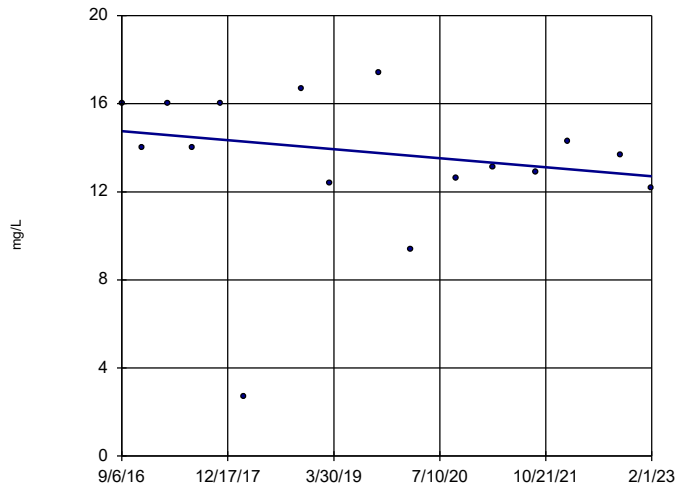
DGWC-11



Constituent: Chloride, Total Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

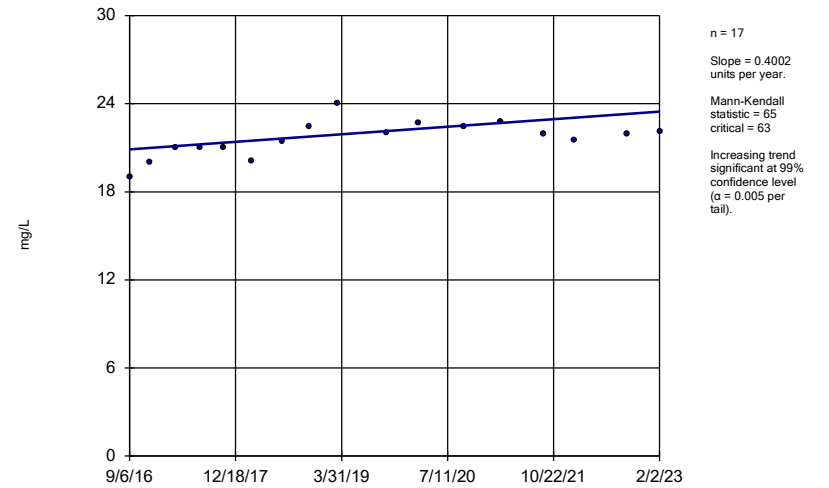
DGWC-13



Constituent: Chloride, Total Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-15

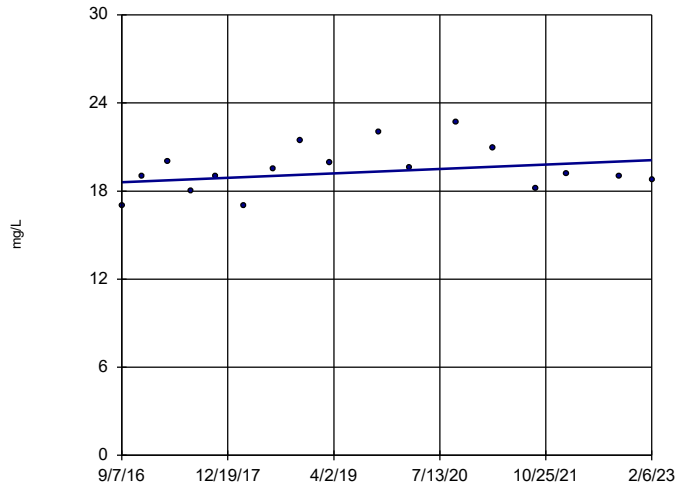


Constituent: Chloride, Total Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
Plant McDonough Client: Southern Company Data: McDonough AP



### Sen's Slope Estimator

DGWC-17

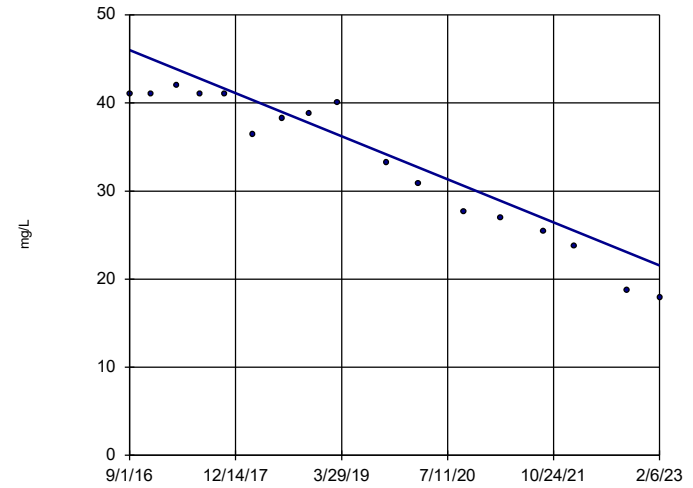


n = 17  
 Slope = 0.2341  
 units per year.  
 Mann-Kendall  
 statistic = 20  
 critical = 63  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride, Total Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-19

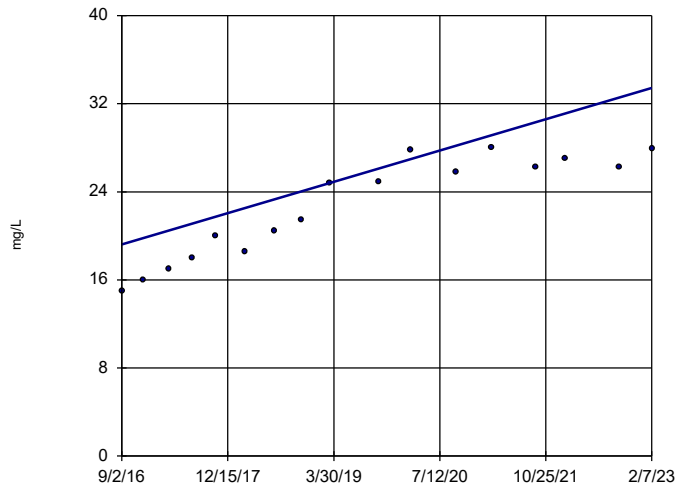


n = 17  
 Slope = -3.8  
 units per year.  
 Mann-Kendall  
 statistic = -114  
 critical = -63  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride, Total Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-20

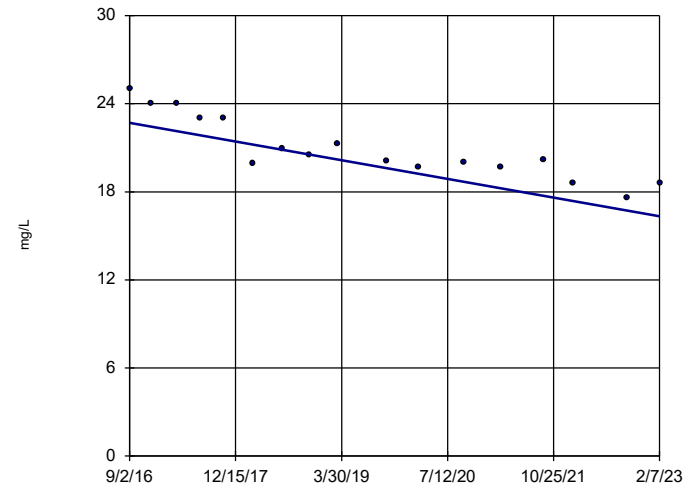


n = 17  
 Slope = 2.211  
 units per year.  
 Mann-Kendall  
 statistic = 115  
 critical = 63  
 Increasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride, Total Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-21

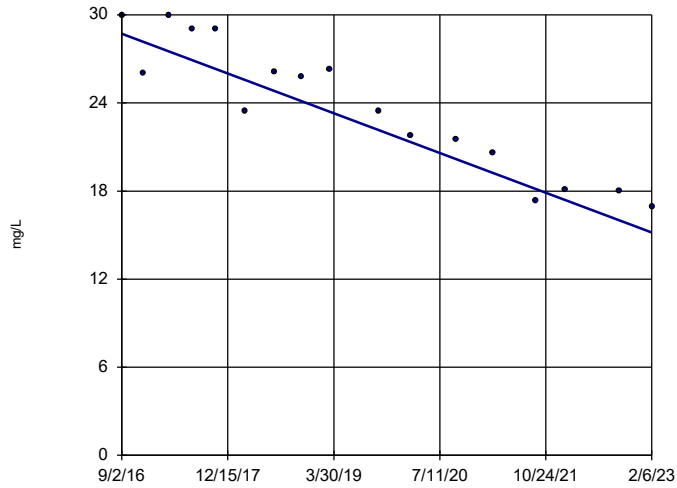


n = 17  
 Slope = -0.9889  
 units per year.  
 Mann-Kendall  
 statistic = -104  
 critical = -63  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride, Total Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

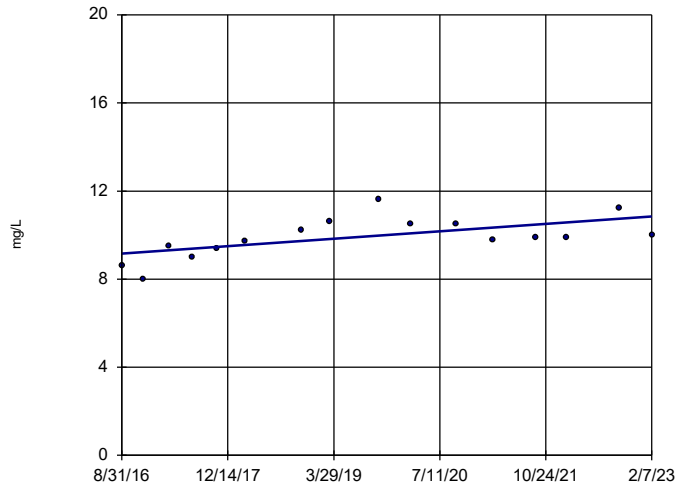
### Sen's Slope Estimator

DGWC-22



### Sen's Slope Estimator

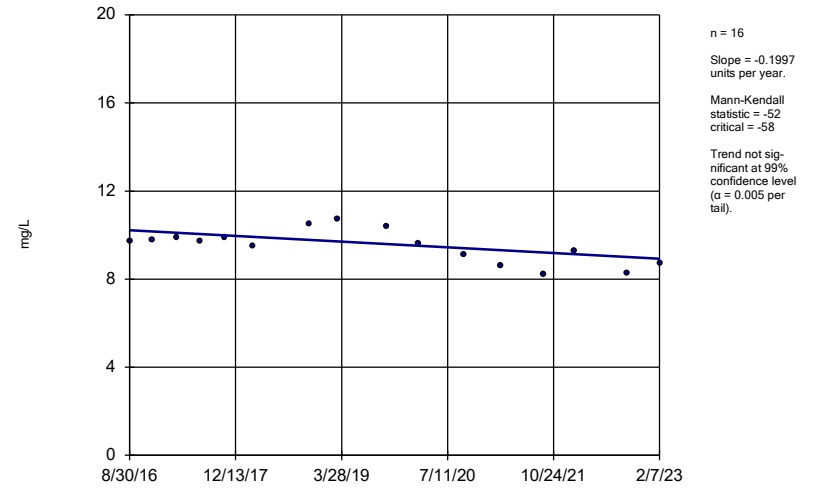
DGWC-5



Constituent: Chloride, Total Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

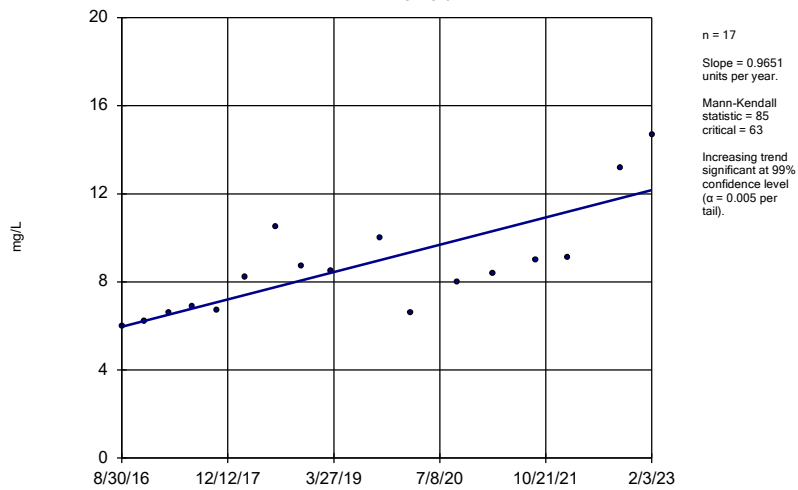
DGWC-8



Constituent: Chloride, Total Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-9

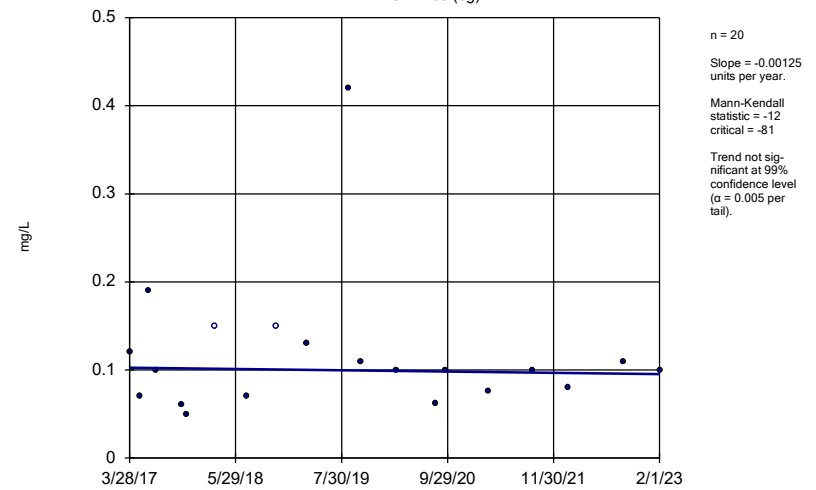


Constituent: Chloride, Total Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

Hollow symbols indicate censored values.

### Sen's Slope Estimator

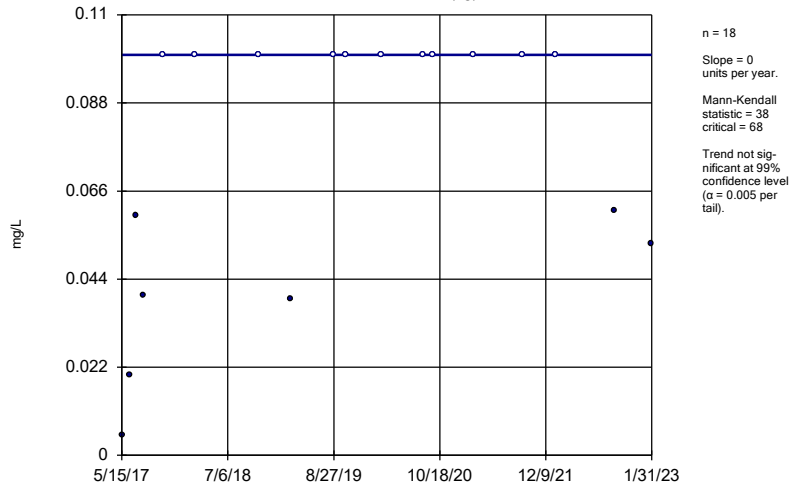
DGWA-53 (bg)



Constituent: Fluoride, total Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

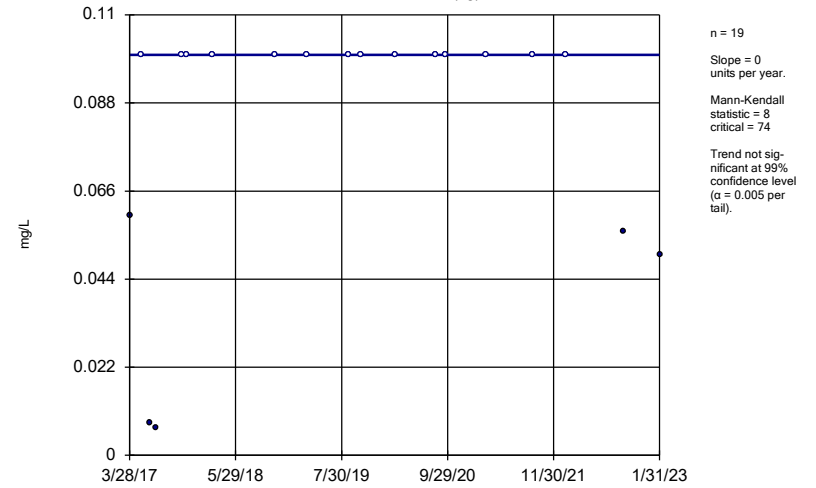
DGWA-70A (bg)



Constituent: Fluoride, total Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

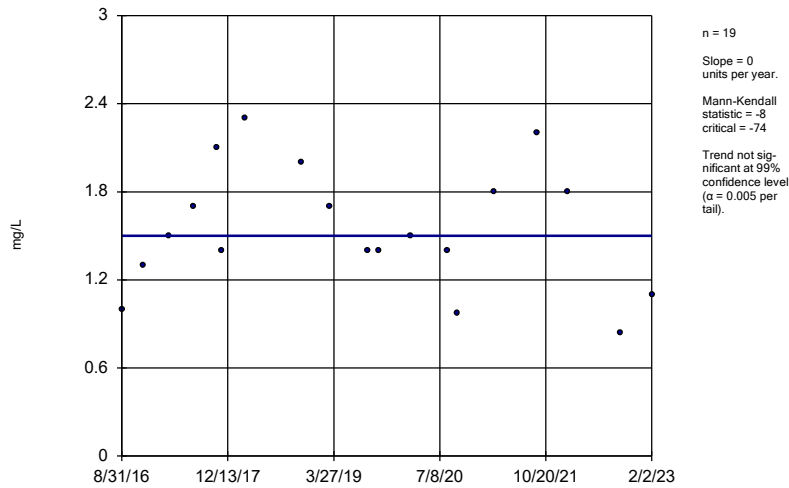
DGWA-71 (bg)



Constituent: Fluoride, total Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

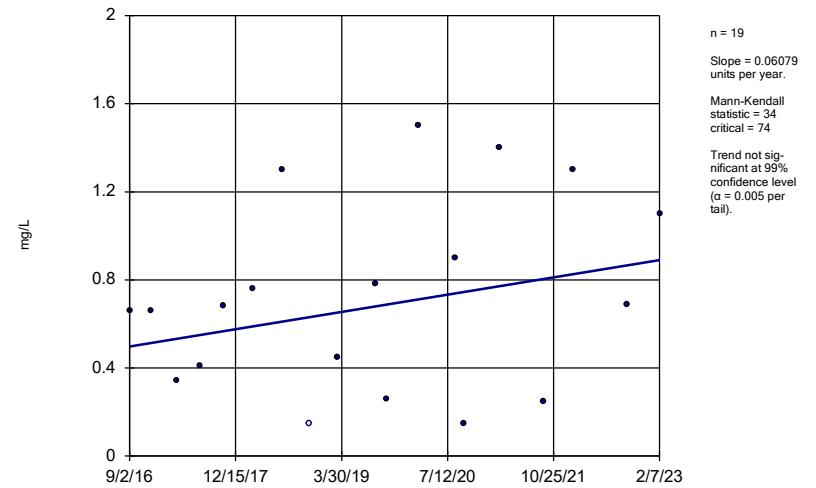
DGWC-10



Constituent: Fluoride, total Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

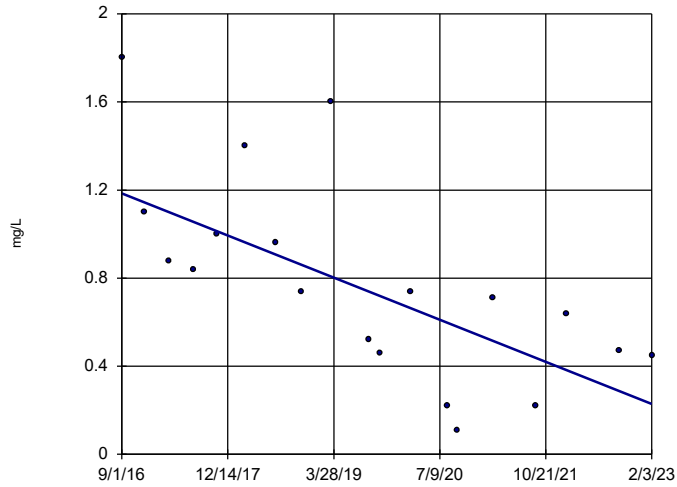
DGWC-20



Constituent: Fluoride, total Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

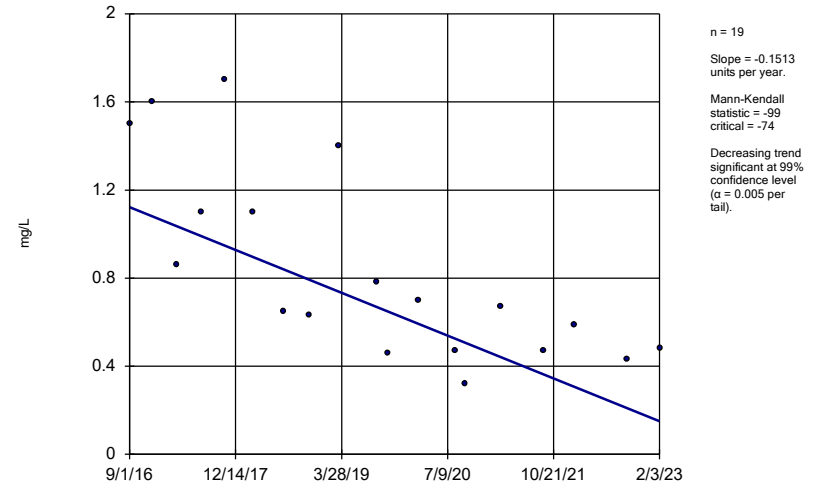
DGWC-47



Constituent: Fluoride, total Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

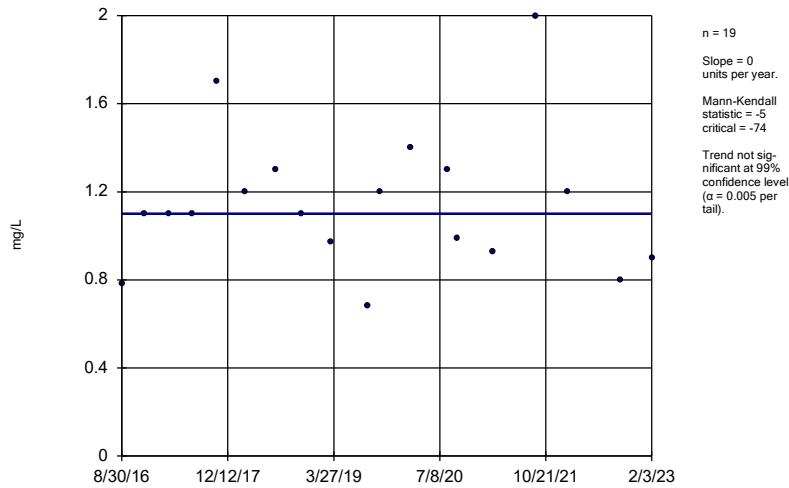
DGWC-48



Constituent: Fluoride, total Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

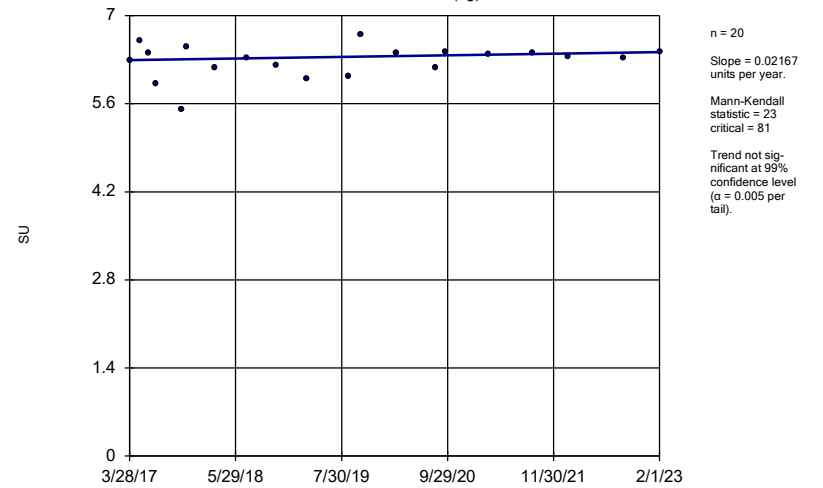
DGWC-9



Constituent: Fluoride, total Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

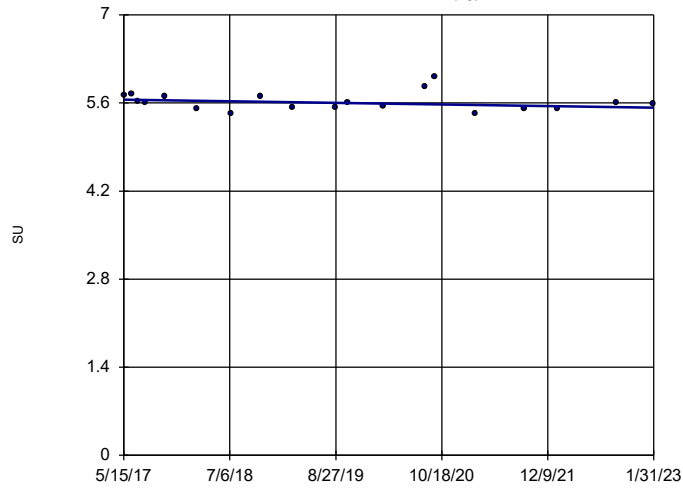
DGWA-53 (bg)



Constituent: pH, Field Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWA-70A (bg)

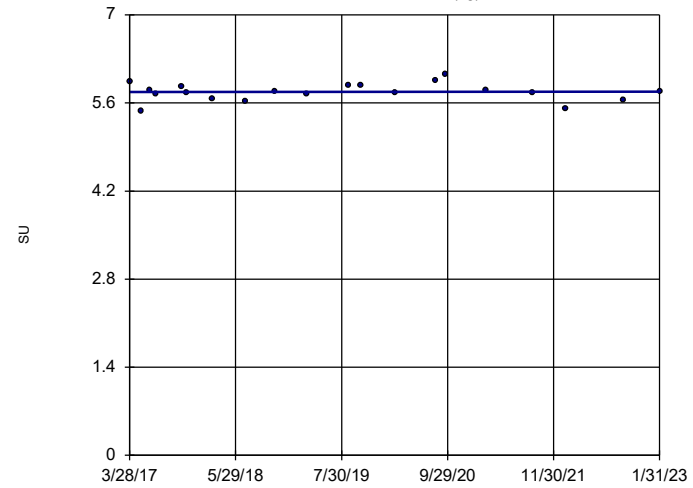


n = 19  
 Slope = -0.02248 units per year.  
 Mann-Kendall statistic = -34  
 critical = -74  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWA-71 (bg)

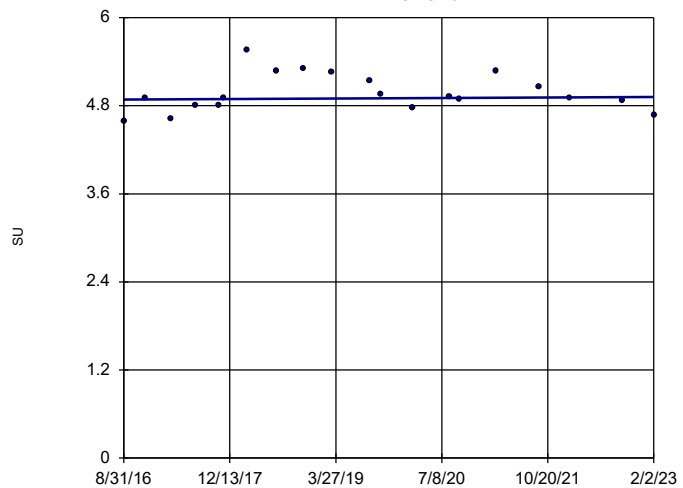


n = 20  
 Slope = 0.000959 units per year.  
 Mann-Kendall statistic = 2  
 critical = 81  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-10

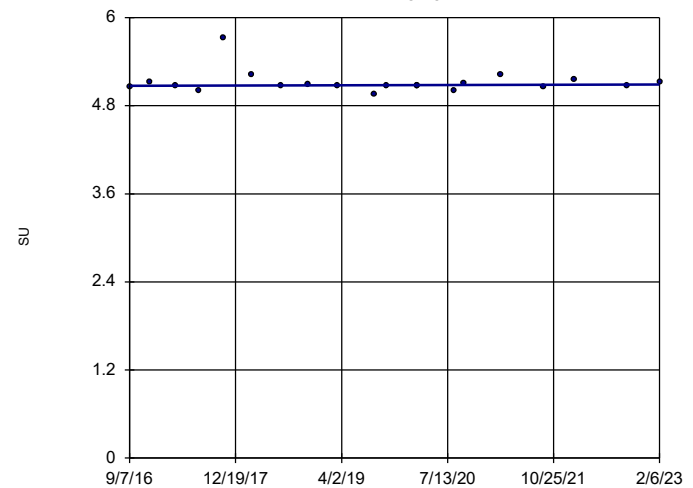


n = 20  
 Slope = 0.00524 units per year.  
 Mann-Kendall statistic = 6  
 critical = 81  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-17

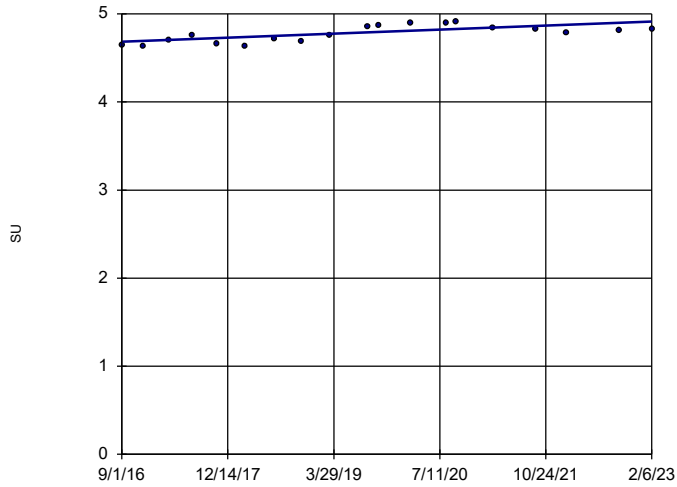


n = 20  
 Slope = 0.002621 units per year.  
 Mann-Kendall statistic = 15  
 critical = 81  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-19

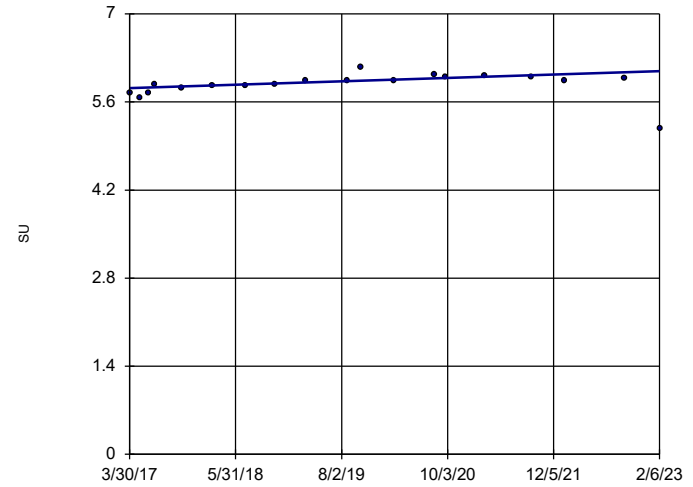


n = 19  
 Slope = 0.03563  
 units per year.  
 Mann-Kendall  
 statistic = 84  
 critical = 74  
 Increasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: pH, Field Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-2

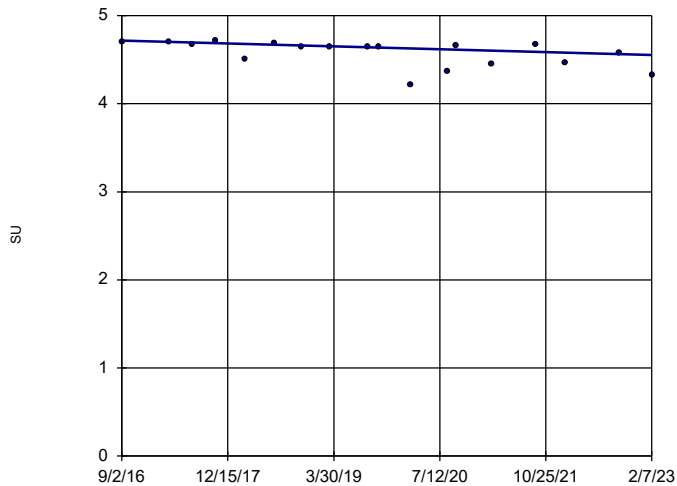


n = 19  
 Slope = 0.04562  
 units per year.  
 Mann-Kendall  
 statistic = 78  
 critical = 74  
 Increasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: pH, Field Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-20

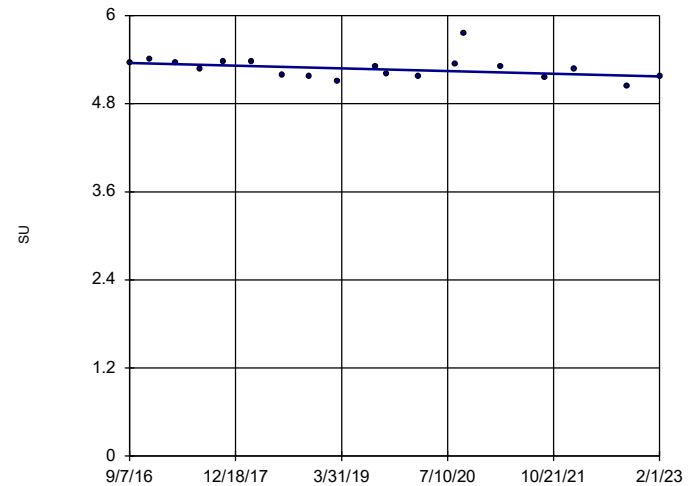


n = 18  
 Slope = -0.02556  
 units per year.  
 Mann-Kendall  
 statistic = -72  
 critical = -68  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: pH, Field Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-42

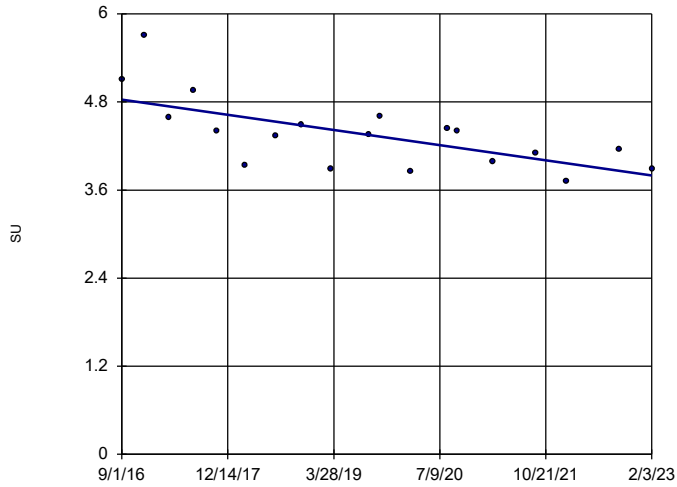


n = 19  
 Slope = -0.02876  
 units per year.  
 Mann-Kendall  
 statistic = -64  
 critical = -74  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: pH, Field Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-47

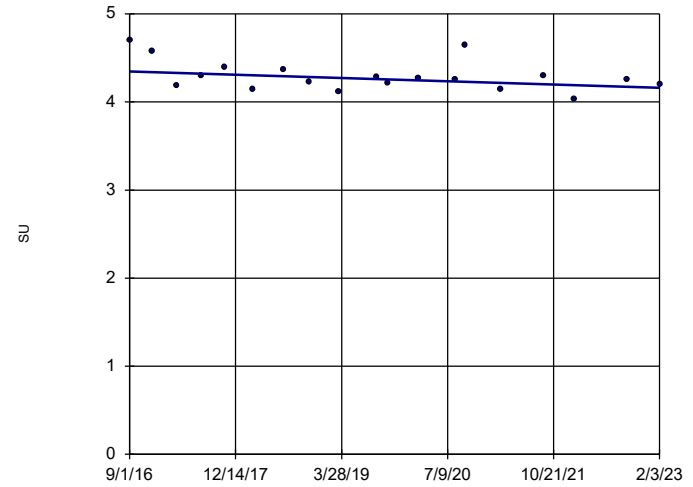


n = 19  
 Slope = -0.1608  
 units per year.  
 Mann-Kendall  
 statistic = -86  
 critical = -74  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: pH, Field Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-48

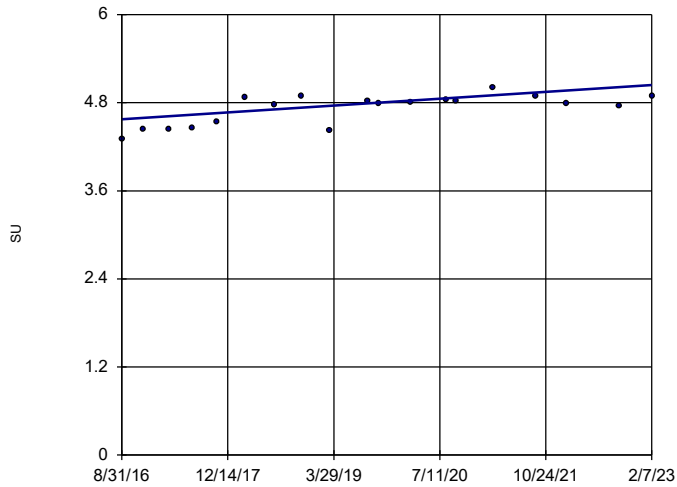


n = 19  
 Slope = -0.02866  
 units per year.  
 Mann-Kendall  
 statistic = -51  
 critical = -74  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: pH, Field Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-5

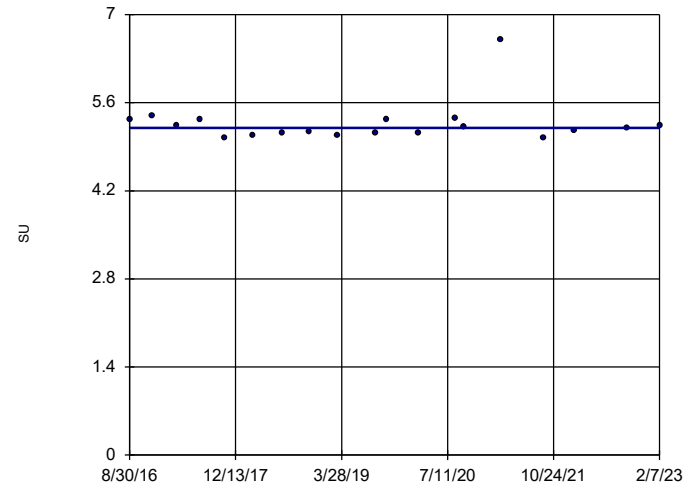


n = 19  
 Slope = 0.07246  
 units per year.  
 Mann-Kendall  
 statistic = 83  
 critical = 74  
 Increasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: pH, Field Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-8



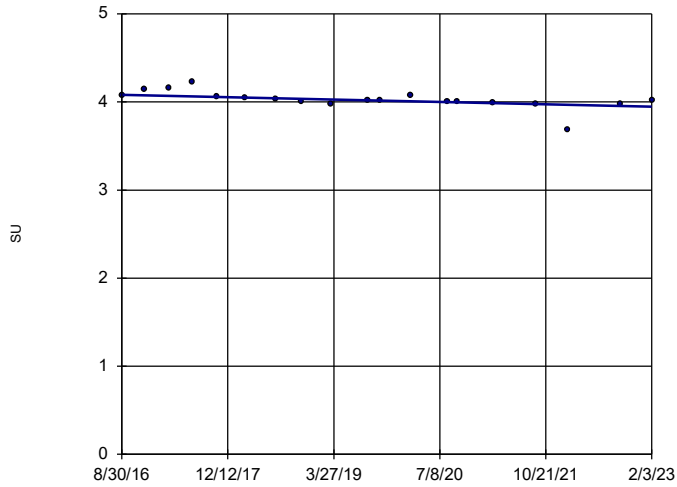
n = 19  
 Slope = 0  
 units per year.  
 Mann-Kendall  
 statistic = 3  
 critical = 74  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: pH, Field Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP



### Sen's Slope Estimator

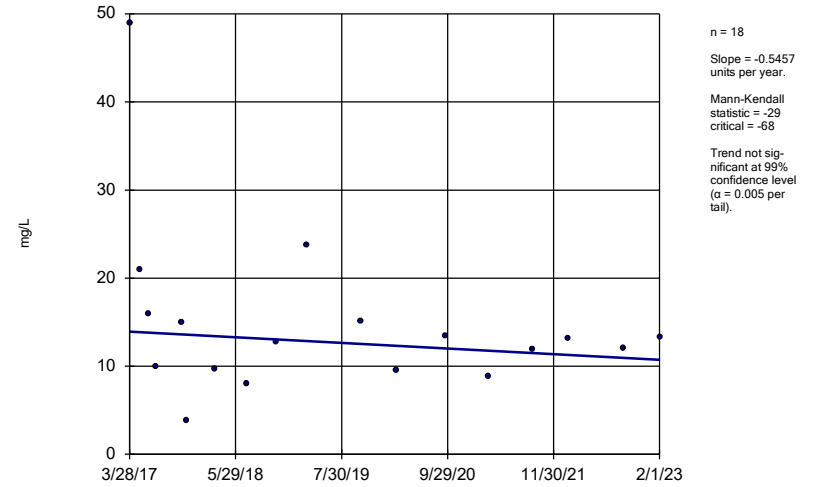
DGWC-9



Constituent: pH, Field Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

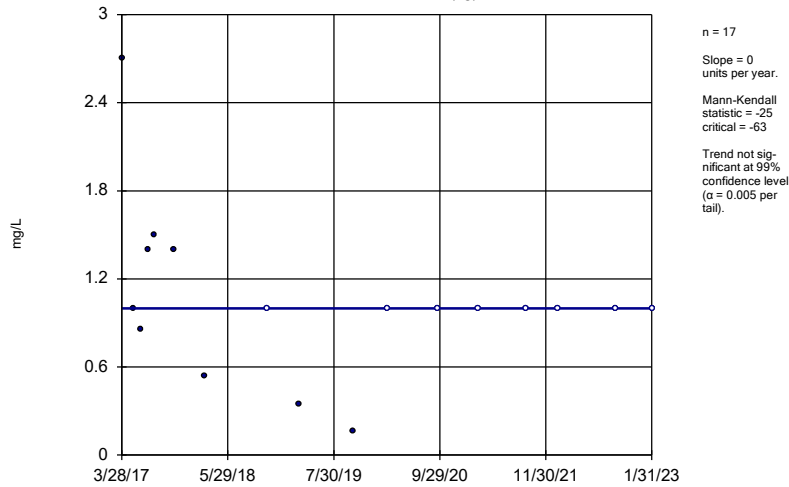
DGWA-53 (bg)



Constituent: Sulfate as SO4 Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

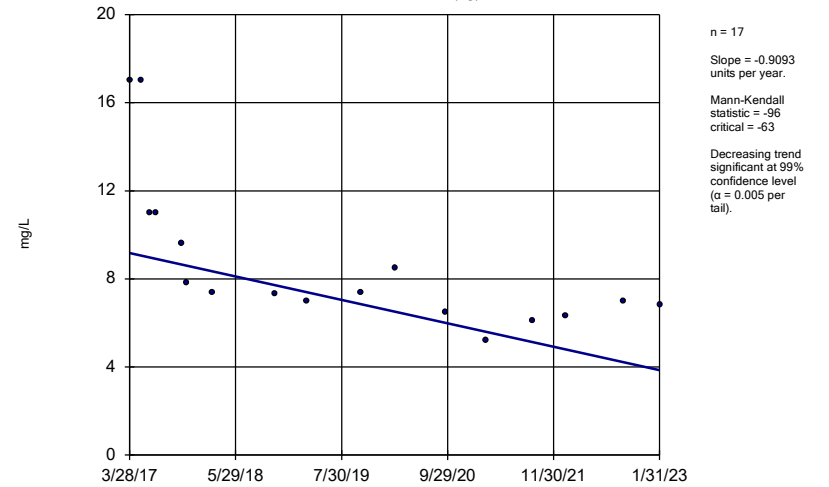
DGWA-70A (bg)



Constituent: Sulfate as SO4 Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

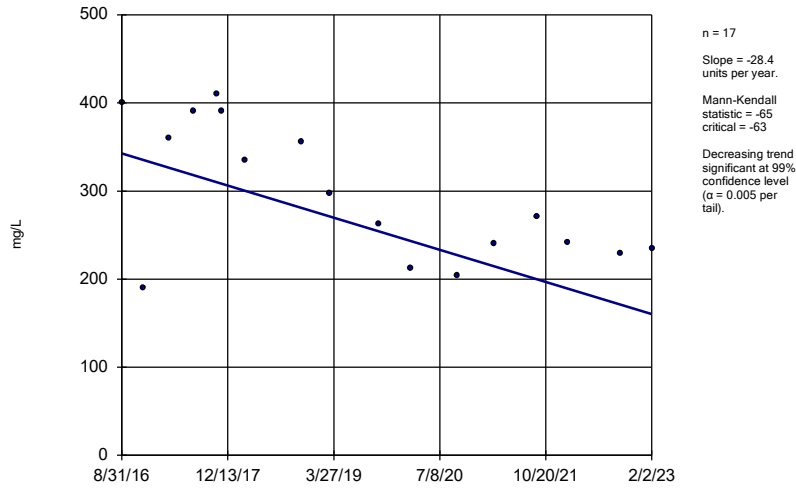
DGWA-71 (bg)



Constituent: Sulfate as SO4 Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

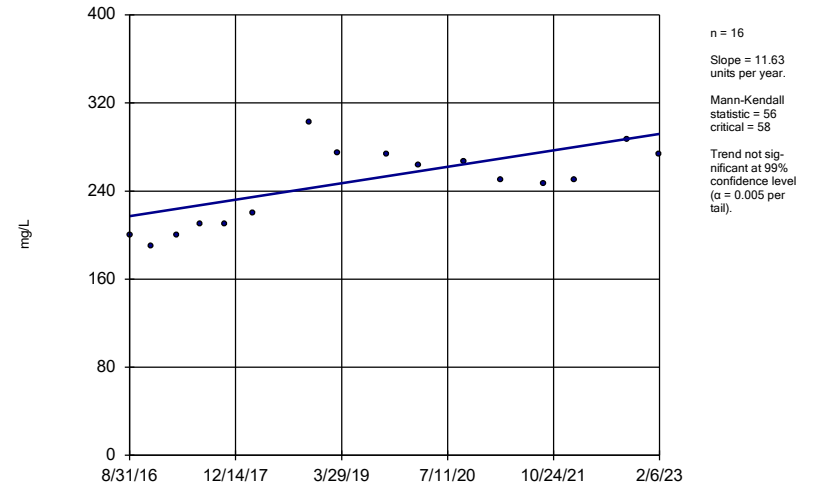
DGWC-10



Constituent: Sulfate as SO4 Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

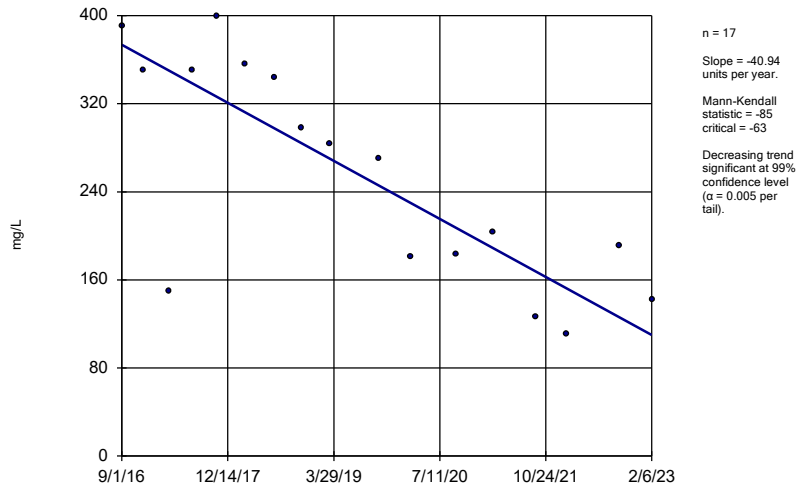
DGWC-11



Constituent: Sulfate as SO4 Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

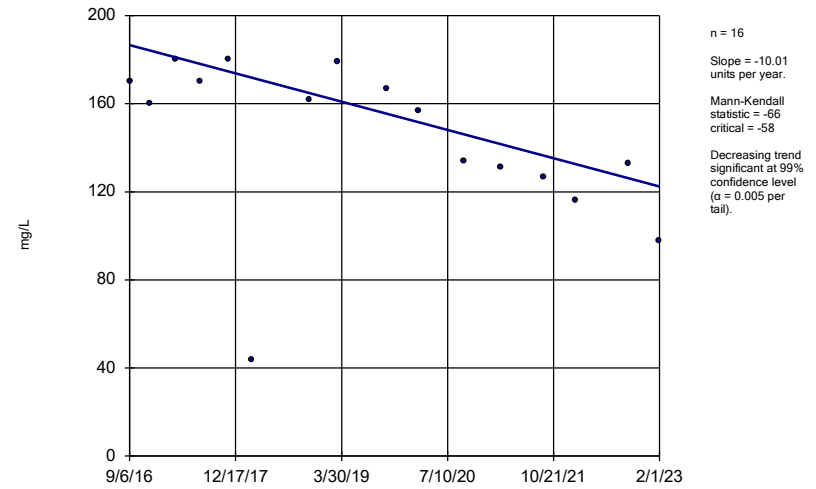
DGWC-12



Constituent: Sulfate as SO4 Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

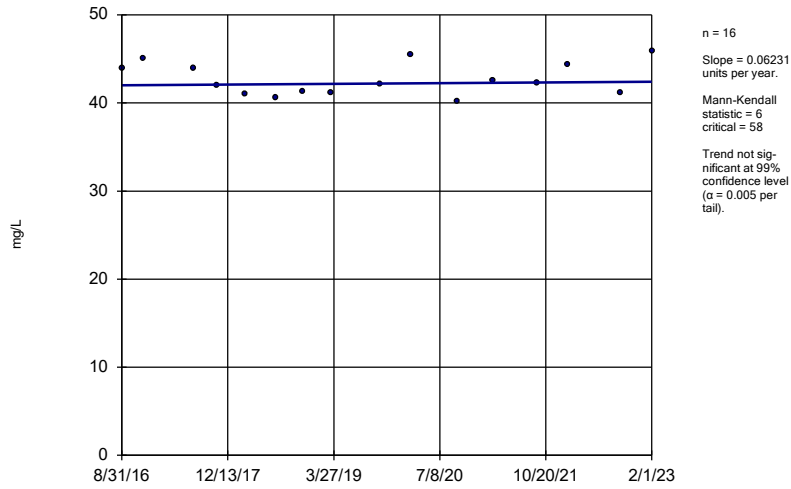
DGWC-13



Constituent: Sulfate as SO4 Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

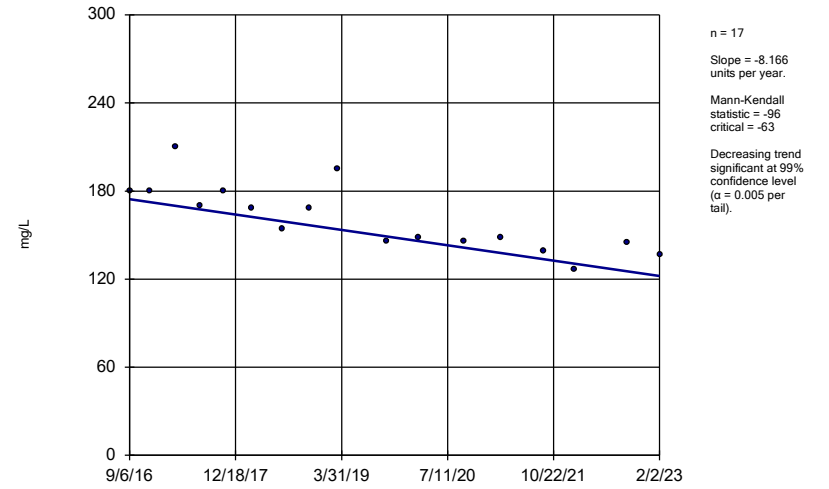
DGWC-14



Constituent: Sulfate as SO4 Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

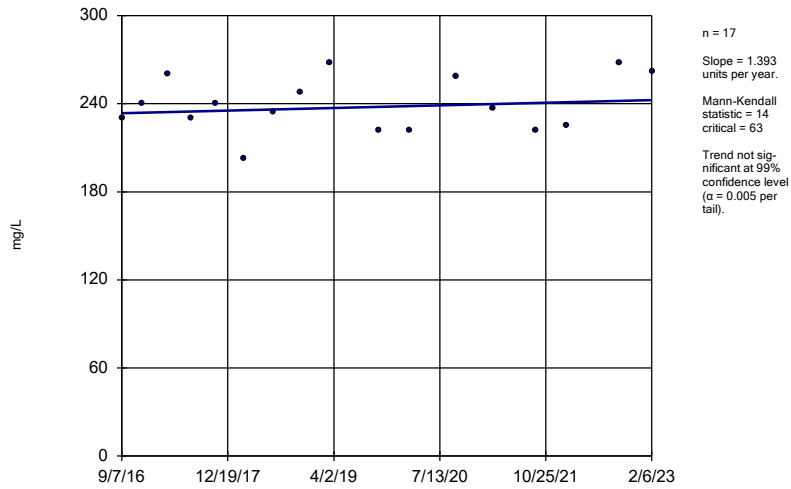
DGWC-15



Constituent: Sulfate as SO4 Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

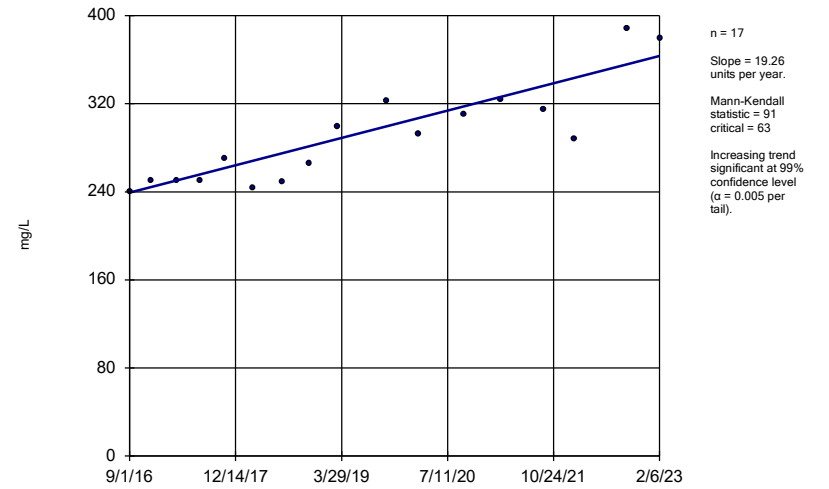
DGWC-17



Constituent: Sulfate as SO4 Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

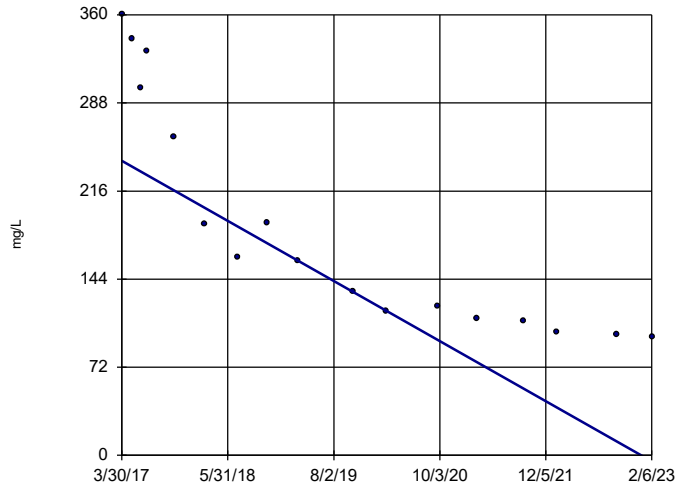
DGWC-19



Constituent: Sulfate as SO4 Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-2

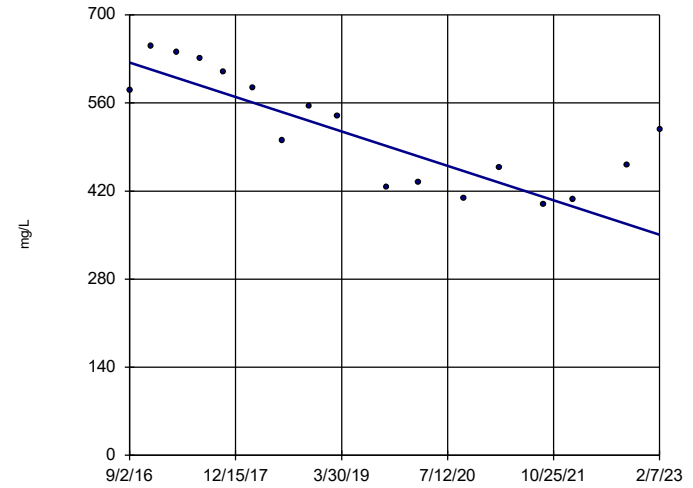


n = 17  
 Slope = -41.9  
 units per year.  
 Mann-Kendall  
 statistic = -128  
 critical = -63  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Sulfate as SO4 Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-20

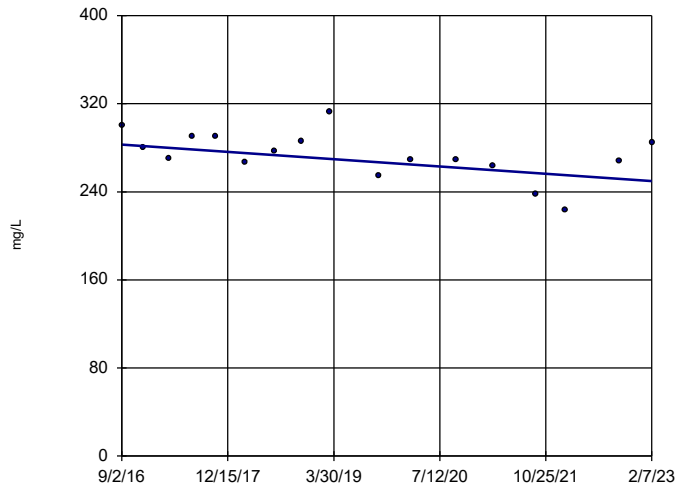


n = 17  
 Slope = -42.49  
 units per year.  
 Mann-Kendall  
 statistic = -84  
 critical = -63  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Sulfate as SO4 Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-21

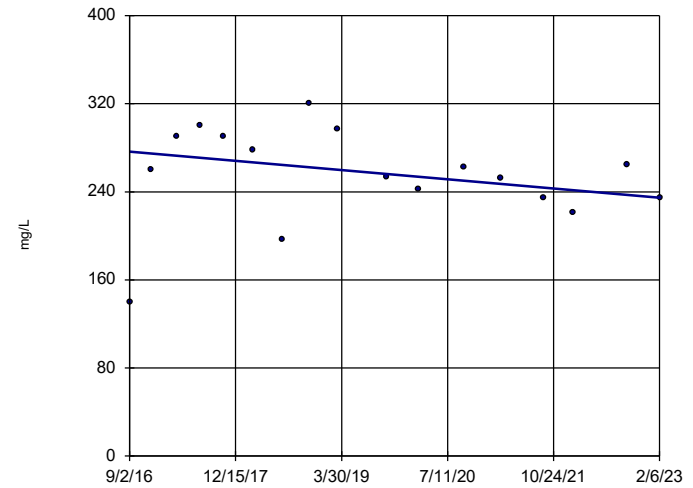


n = 17  
 Slope = -5.15  
 units per year.  
 Mann-Kendall  
 statistic = -56  
 critical = -63  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Sulfate as SO4 Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-22

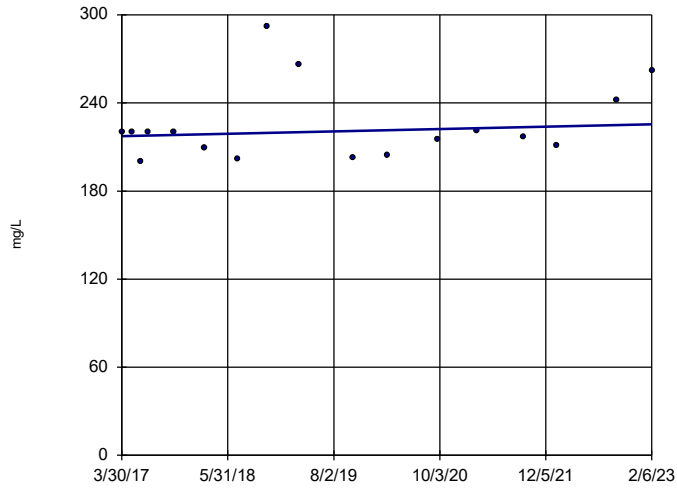


n = 17  
 Slope = -6.488  
 units per year.  
 Mann-Kendall  
 statistic = -29  
 critical = -63  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Sulfate as SO4 Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-23

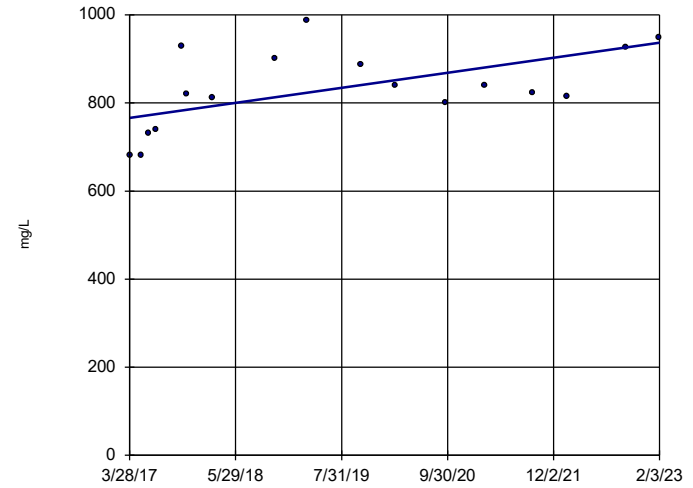


n = 17  
 Slope = 1.375  
 units per year.  
 Mann-Kendall  
 statistic = 22  
 critical = 63  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Sulfate as SO4 Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-4

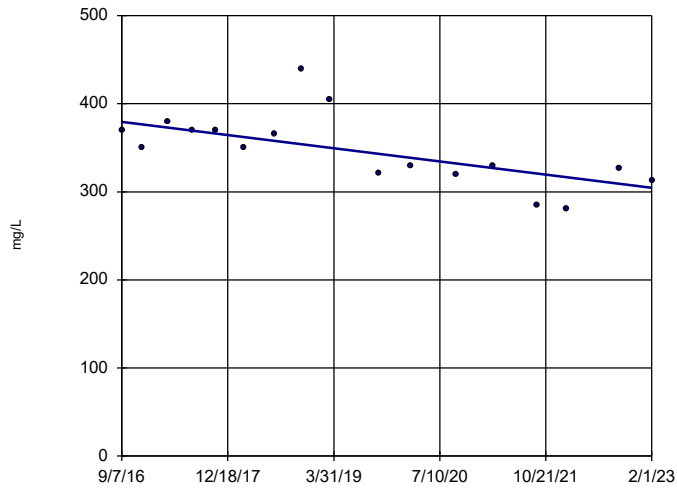


n = 17  
 Slope = 29.26  
 units per year.  
 Mann-Kendall  
 statistic = 56  
 critical = 63  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Sulfate as SO4 Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-42

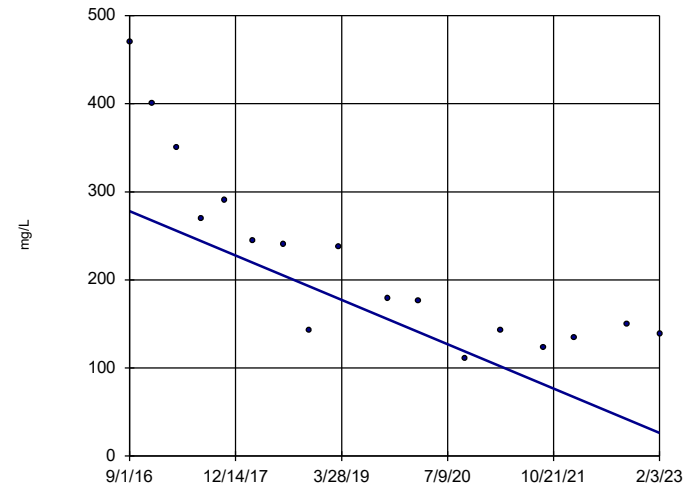


n = 17  
 Slope = -11.65  
 units per year.  
 Mann-Kendall  
 statistic = -73  
 critical = -63  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Sulfate as SO4 Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-47

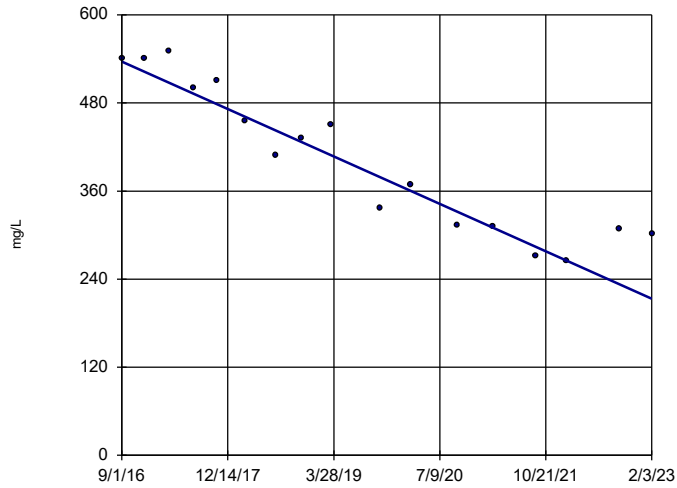


n = 17  
 Slope = -39.19  
 units per year.  
 Mann-Kendall  
 statistic = -103  
 critical = -63  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Sulfate as SO4 Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

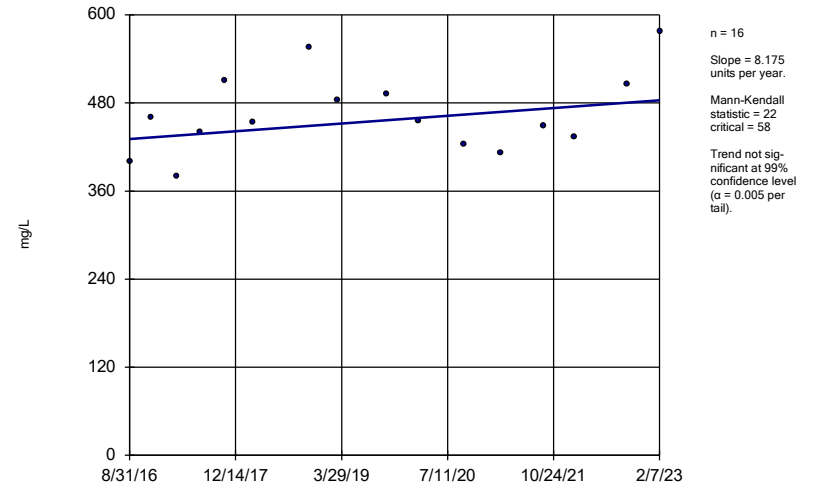
DGWC-48



Constituent: Sulfate as SO4 Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

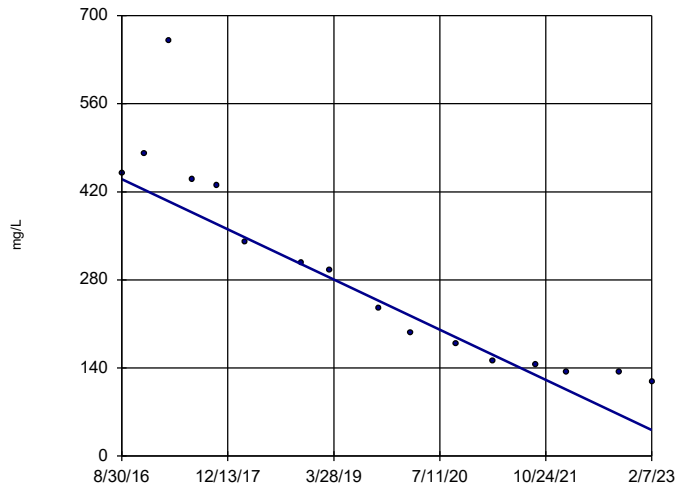
DGWC-5



Constituent: Sulfate as SO4 Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

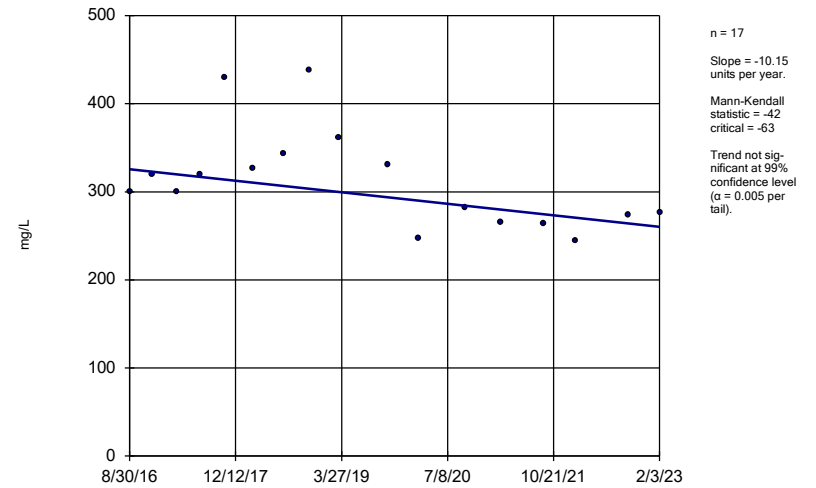
DGWC-8



Constituent: Sulfate as SO4 Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

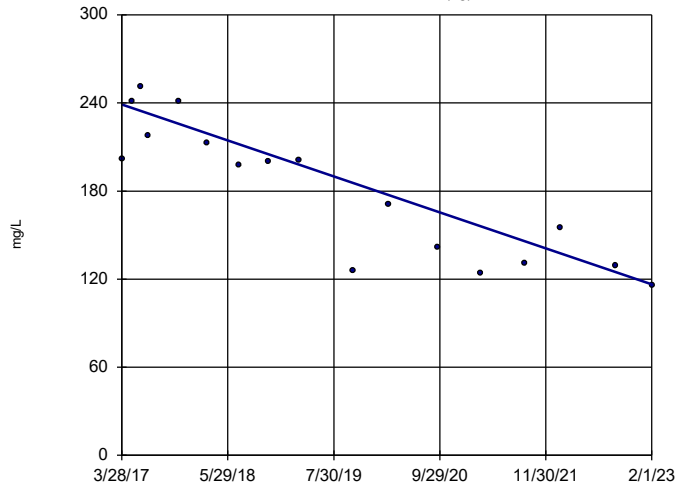
DGWC-9



Constituent: Sulfate as SO4 Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWA-53 (bg)

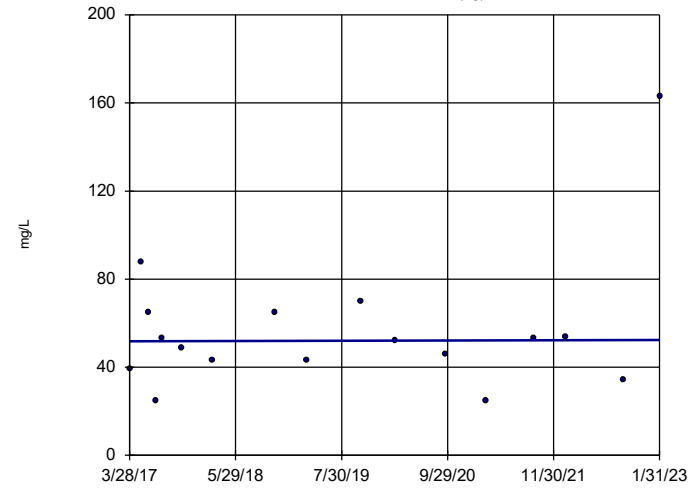


n = 17  
 Slope = -20.92 units per year.  
 Mann-Kendall statistic = -95  
 critical = -63  
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWA-70A (bg)

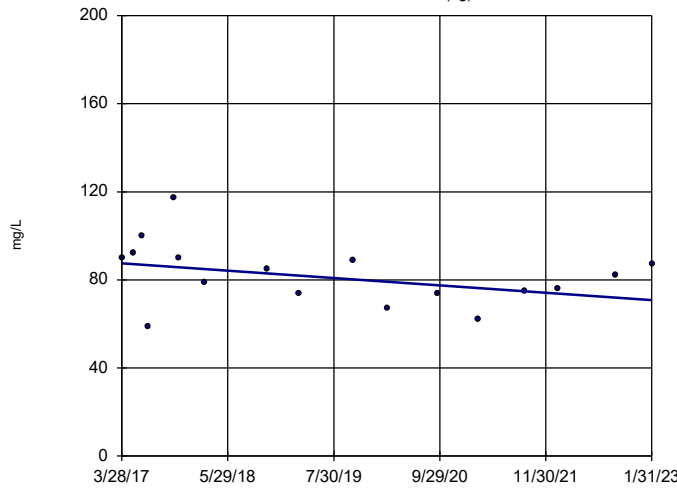


n = 17  
 Slope = 0.1124 units per year.  
 Mann-Kendall statistic = 4  
 critical = 63  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWA-71 (bg)

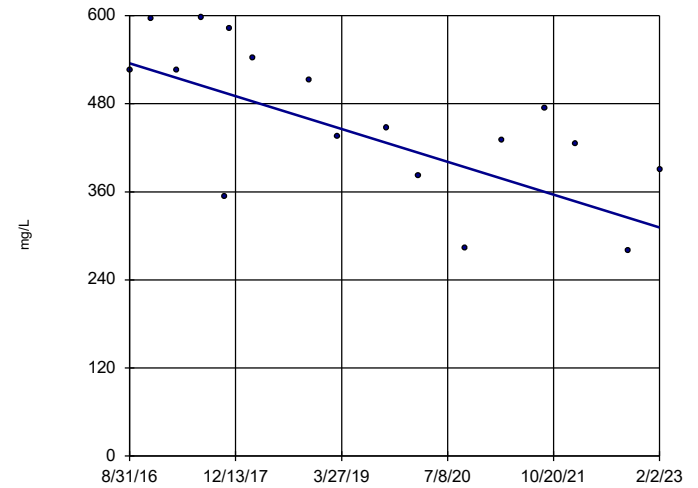


n = 17  
 Slope = -2.859 units per year.  
 Mann-Kendall statistic = -36  
 critical = -63  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-10

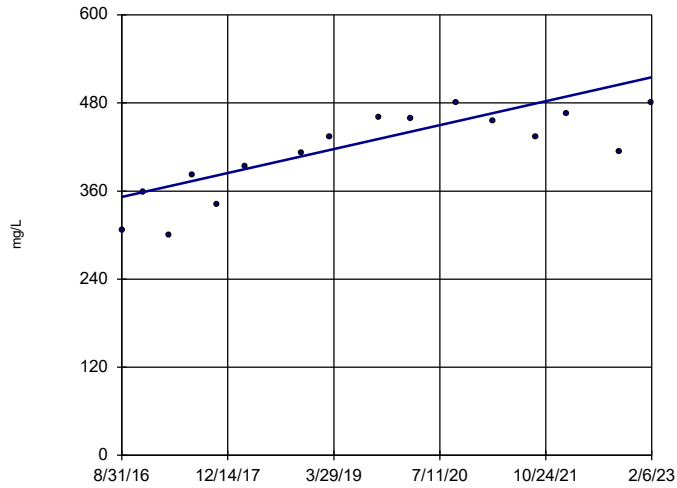


n = 17  
 Slope = -34.77 units per year.  
 Mann-Kendall statistic = -73  
 critical = -63  
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-11

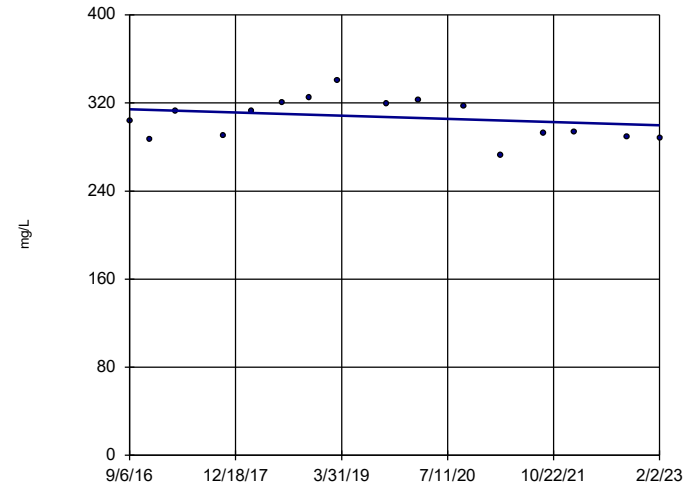


n = 16  
 Slope = 25.35  
 units per year.  
 Mann-Kendall  
 statistic = 78  
 critical = 58  
 Increasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-15

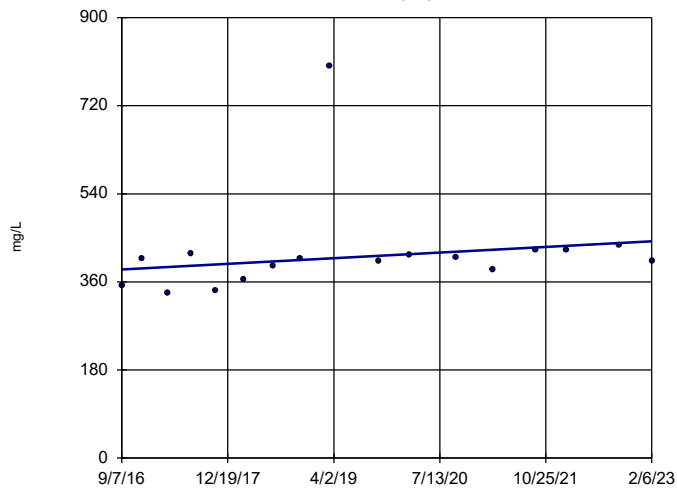


n = 16  
 Slope = -2.265  
 units per year.  
 Mann-Kendall  
 statistic = -14  
 critical = -58  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-17

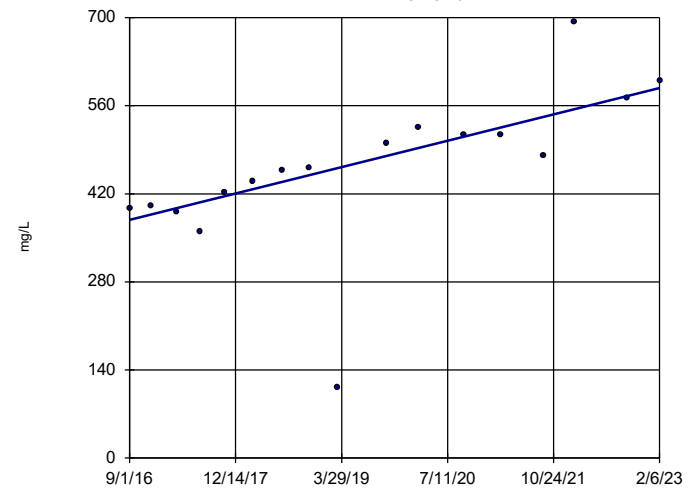


n = 17  
 Slope = 9.024  
 units per year.  
 Mann-Kendall  
 statistic = 56  
 critical = 63  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 4/17/2023 9:04 AM View: A3 Trend Test (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

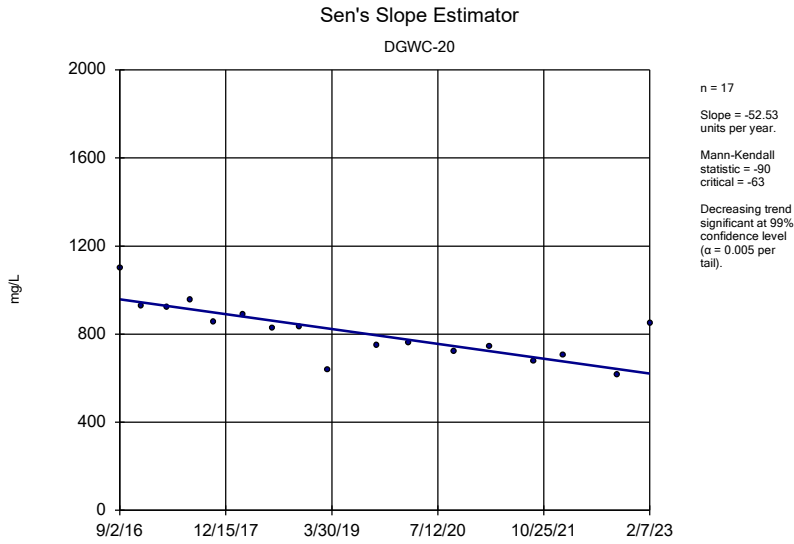
DGWC-19



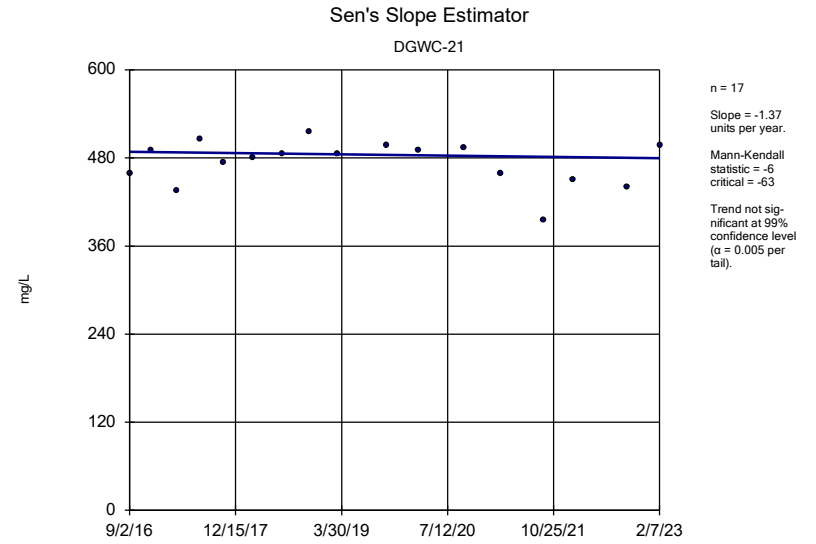
n = 17  
 Slope = 32.5  
 units per year.  
 Mann-Kendall  
 statistic = 93  
 critical = 63  
 Increasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 4/17/2023 9:05 AM View: A3 Trend Test (234)  
 Plant McDonough Client: Southern Company Data: McDonough AP

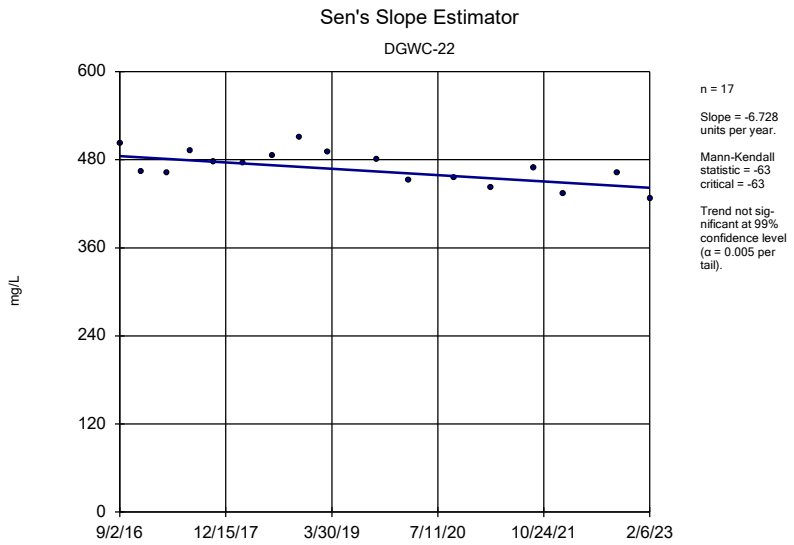




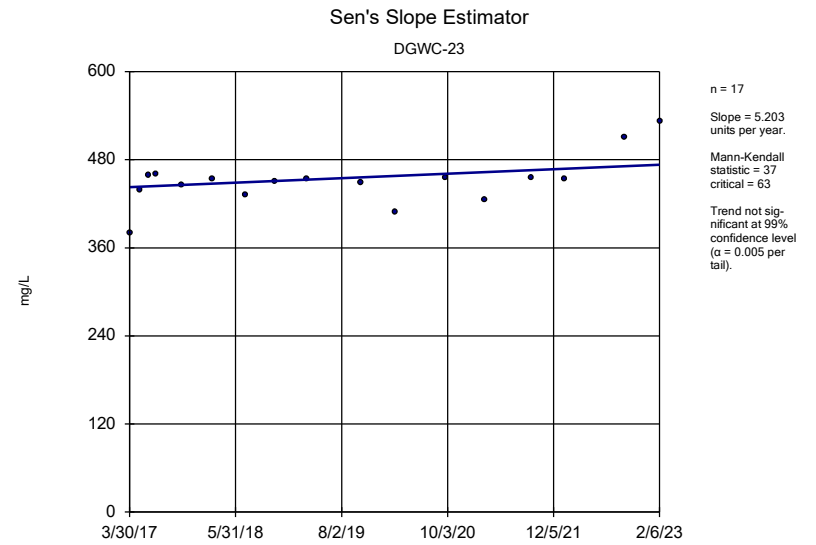
Constituent: Total Dissolved Solids [TDS] Analysis Run 4/17/2023 9:05 AM View: A3 Trend Test (234)  
Plant McDonough Client: Southern Company Data: McDonough AP



Constituent: Total Dissolved Solids [TDS] Analysis Run 4/17/2023 9:05 AM View: A3 Trend Test (234)  
Plant McDonough Client: Southern Company Data: McDonough AP



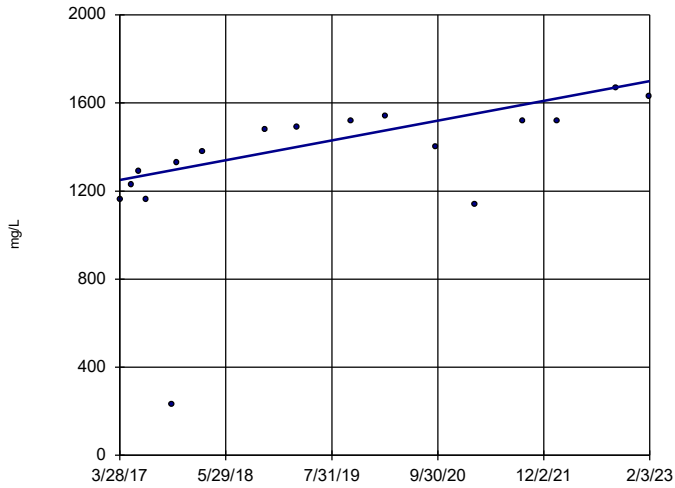
Constituent: Total Dissolved Solids [TDS] Analysis Run 4/17/2023 9:05 AM View: A3 Trend Test (234)  
Plant McDonough Client: Southern Company Data: McDonough AP



Constituent: Total Dissolved Solids [TDS] Analysis Run 4/17/2023 9:05 AM View: A3 Trend Test (234)  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

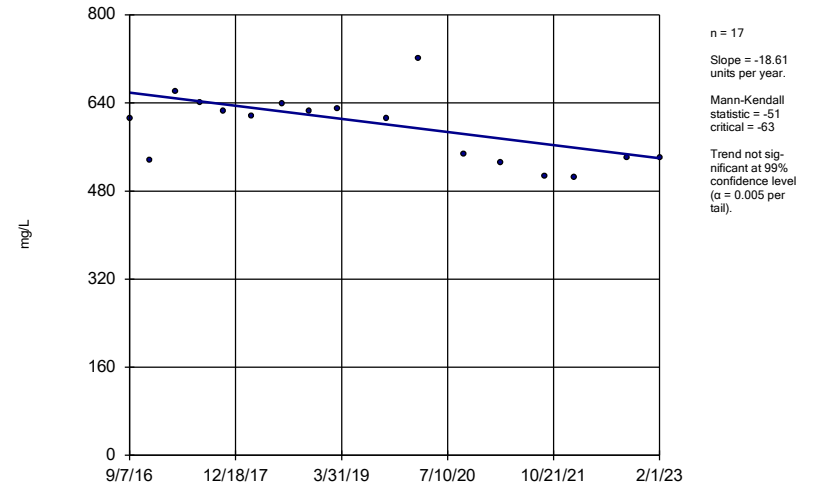
DGWC-4



Constituent: Total Dissolved Solids [TDS] Analysis Run 4/17/2023 9:05 AM View: A3 Trend Test (234)  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

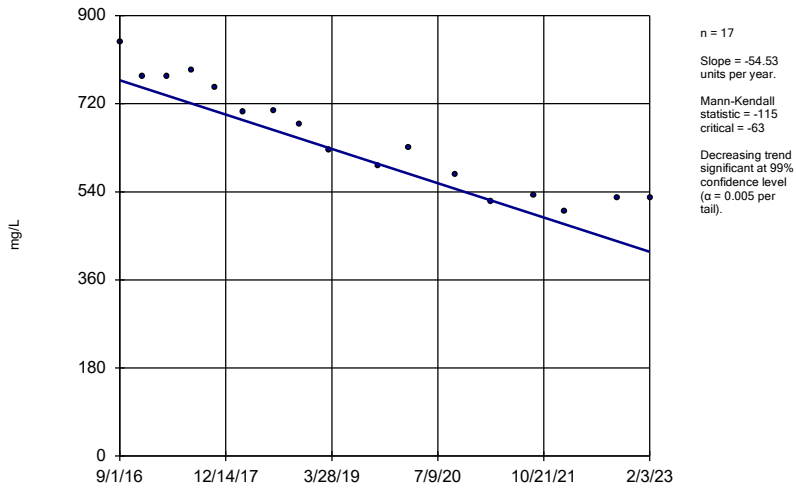
DGWC-42



Constituent: Total Dissolved Solids [TDS] Analysis Run 4/17/2023 9:05 AM View: A3 Trend Test (234)  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

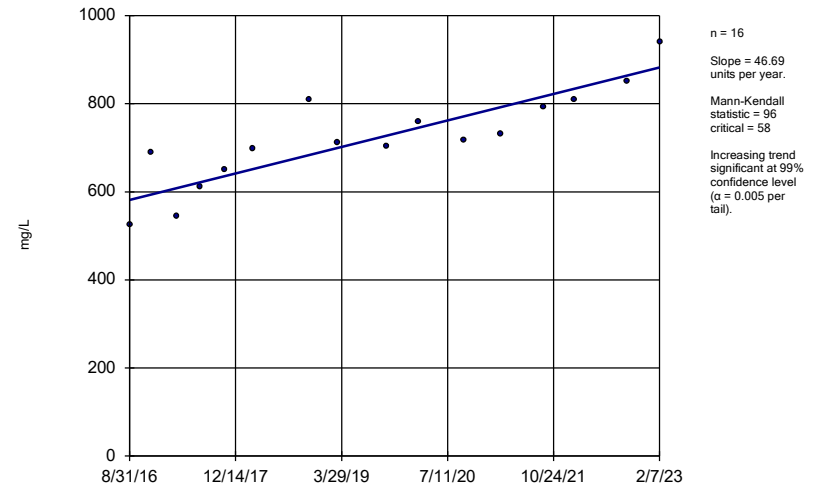
DGWC-48



Constituent: Total Dissolved Solids [TDS] Analysis Run 4/17/2023 9:05 AM View: A3 Trend Test (234)  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

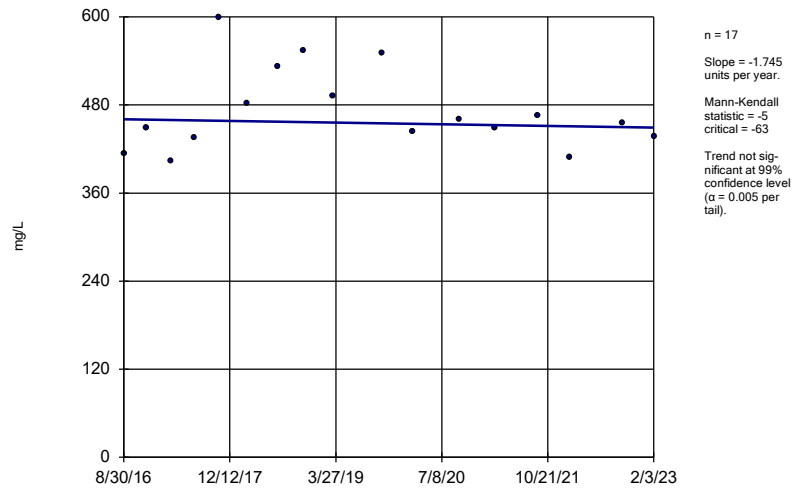
DGWC-5



Constituent: Total Dissolved Solids [TDS] Analysis Run 4/17/2023 9:05 AM View: A3 Trend Test (234)  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-9



Constituent: Total Dissolved Solids [TDS] Analysis Run 4/17/2023 9:05 AM View: A3 Trend Test (234)  
Plant McDonough Client: Southern Company Data: McDonough AP

FIGURE F.

# Upper Tolerance Limit Summary Table

Plant McDonough    Client: Southern Company    Data: McDonough AP    Printed 4/17/2023, 9:10 AM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg.N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	n/a	0.003	n/a	n/a	n/a	53	83.02	n/a	0.06597	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.0054	n/a	n/a	n/a	53	73.58	n/a	0.06597	NP Inter(normality)
Barium (mg/L)	n/a	0.19	n/a	n/a	n/a	53	0	n/a	0.06597	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0009	n/a	n/a	n/a	54	55.56	n/a	0.06267	NP Inter(normality)
Cadmium (mg/L)	n/a	0.0005	n/a	n/a	n/a	53	92.45	n/a	0.06597	NP Inter(NDs)
Chromium (mg/L)	n/a	0.005	n/a	n/a	n/a	52	67.31	n/a	0.06944	NP Inter(normality)
Cobalt (mg/L)	n/a	0.0322	n/a	n/a	n/a	53	41.51	n/a	0.06597	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	n/a	5.008	n/a	n/a	n/a	55	0	x^(1/3)	0.05	Inter
Fluoride, total (mg/L)	n/a	0.42	n/a	n/a	n/a	57	47.37	n/a	0.05373	NP Inter(normality)
Lead (mg/L)	n/a	0.001	n/a	n/a	n/a	53	83.02	n/a	0.06597	NP Inter(NDs)
Lithium (mg/L)	n/a	0.03	n/a	n/a	n/a	53	35.85	n/a	0.06597	NP Inter(normality)
Mercury (mg/L)	n/a	0.0002	n/a	n/a	n/a	53	84.91	n/a	0.06597	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.0409	n/a	n/a	n/a	53	64.15	n/a	0.06597	NP Inter(normality)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	53	100	n/a	0.06597	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	53	96.23	n/a	0.06597	NP Inter(NDs)

FIGURE G.

<b>PLANT MCDONOUGH ASH POND 2, 3, 4 GWPS TABLE</b>				
<b>Constituent Name</b>	<b>MCL</b>	<b>CCR-Rule Specified</b>	<b>Background Limit</b>	<b>GWPS</b>
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		5.01	5.01
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 5/4/2023, 3:01 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	DGWC-9	0.02771	0.01603	0.01	Yes	18	0.02187	0.009656	5.556	None	No	0.01	Param.
Beryllium (mg/L)	B-92	0.02106	0.01394	0.004	Yes	6	0.0175	0.002588	0	None	No	0.01	Param.
Beryllium (mg/L)	B-93	0.01711	0.01342	0.004	Yes	8	0.01486	0.003348	0	None	x^5	0.01	Param.
Beryllium (mg/L)	DGWC-10	0.008872	0.005975	0.004	Yes	17	0.007424	0.002311	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-47	0.01224	0.009073	0.004	Yes	18	0.01066	0.002616	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-48	0.008902	0.007309	0.004	Yes	18	0.008106	0.001316	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-5	0.008777	0.006623	0.004	Yes	17	0.0077	0.001719	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-9	0.005746	0.004909	0.004	Yes	18	0.005328	0.0006918	0	None	No	0.01	Param.
Cobalt (mg/L)	B-104D	0.1977	0.1052	0.032	Yes	7	0.1514	0.03891	0	None	No	0.01	Param.
Cobalt (mg/L)	B-56	0.05613	0.04187	0.032	Yes	7	0.049	0.006	0	None	No	0.01	Param.
Cobalt (mg/L)	B-63	0.05052	0.03385	0.032	Yes	8	0.04219	0.007865	0	None	No	0.01	Param.
Cobalt (mg/L)	B-92	0.08763	0.05587	0.032	Yes	4	0.07175	0.006994	0	None	No	0.01	Param.
Cobalt (mg/L)	B-93	0.06742	0.05983	0.032	Yes	8	0.06363	0.003583	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-10	0.193	0.086	0.032	Yes	17	0.1421	0.05193	0	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-19	0.05344	0.04991	0.032	Yes	18	0.05168	0.002916	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-20	0.7103	0.4987	0.032	Yes	18	0.6146	0.1855	0	None	x^(1/3)	0.01	Param.
Cobalt (mg/L)	DGWC-47	0.3614	0.2442	0.032	Yes	18	0.3028	0.09687	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-48	0.4852	0.3792	0.032	Yes	18	0.4322	0.08761	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-8	0.07835	0.03328	0.032	Yes	17	0.05581	0.03597	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-9	0.2082	0.1546	0.032	Yes	18	0.1814	0.04426	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-104D	16.72	9.597	5.01	Yes	7	13.16	2.999	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-109D	18.47	9.447	5.01	Yes	6	13.96	3.284	0	None	No	0.01	Param.
Lithium (mg/L)	B-120D	0.0896	0.0656	0.04	Yes	5	0.0776	0.007162	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-47	0.07135	0.05601	0.04	Yes	18	0.06368	0.01267	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-48	0.1232	0.104	0.04	Yes	18	0.1136	0.01589	0	None	No	0.01	Param.

# Confidence Intervals - All Results

Plant McDonough    Client: Southern Company    Data: McDonough AP    Printed 5/4/2023, 3:01 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	7	0.002571	0.000741	71.43	None	No	0.008	NP (NDs)
Antimony (mg/L)	B-101D	0.001784	0.0002715	0.006	No	6	0.001685	0.001131	33.33	Kaplan-Meier	No	0.01	Param.
Antimony (mg/L)	B-102D	0.003	0.0016	0.006	No	7	0.0028	0.0005292	85.71	Kaplan-Meier	No	0.008	NP (NDs)
Antimony (mg/L)	B-104D	0.003	0.00048	0.006	No	7	0.00172	0.001207	42.86	None	No	0.008	NP (normality)
Antimony (mg/L)	B-106D	0.003	0.00048	0.006	No	6	0.00258	0.001029	83.33	None	No	0.0155	NP (NDs)
Antimony (mg/L)	B-109D	0.004	0.00042	0.006	No	6	0.002377	0.001414	50	None	No	0.0155	NP (selected)
Antimony (mg/L)	B-111D	0.003	0.0006	0.006	No	7	0.002657	0.0009071	85.71	None	No	0.008	NP (NDs)
Antimony (mg/L)	B-120D	0.003	0.00029	0.006	No	5	0.002458	0.001212	80	None	No	0.031	NP (NDs)
Antimony (mg/L)	B-56	0.003	0.0011	0.006	No	7	0.002729	0.0007181	85.71	None	No	0.008	NP (NDs)
Antimony (mg/L)	B-62	0.003	0.003	0.006	No	10	0.002746	0.0008032	90	None	No	0.011	NP (NDs)
Antimony (mg/L)	B-63	0.003	0.00066	0.006	No	7	0.002666	0.0008844	85.71	None	No	0.008	NP (NDs)
Antimony (mg/L)	B-77	0.003	0.00036	0.006	No	9	0.002158	0.001265	66.67	None	No	0.002	NP (NDs)
Antimony (mg/L)	B-93	0.003	0.00096	0.006	No	7	0.002266	0.0009307	57.14	None	No	0.008	NP (NDs)
Antimony (mg/L)	B-98	0.003	0.001	0.006	No	4	0.0025	0.001	75	None	No	0.0625	NP (NDs)
Antimony (mg/L)	DGWC-10	0.003	0.0021	0.006	No	17	0.002947	0.0002183	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-12	0.003	0.0003	0.006	No	19	0.002858	0.0006194	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-14	0.003	0.0011	0.006	No	18	0.002783	0.0006308	88.89	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-15	0.003	0.00073	0.006	No	18	0.002726	0.0008017	88.89	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-17	0.003	0.00045	0.006	No	18	0.002858	0.000601	94.44	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-19	0.003	0.00036	0.006	No	18	0.002853	0.0006223	94.44	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-2	0.003	0.0006	0.006	No	18	0.002867	0.0005657	94.44	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-21	0.003	0.0013	0.006	No	18	0.002906	0.0004007	94.44	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-23	0.003	0.0007	0.006	No	18	0.002872	0.0005421	94.44	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-4	0.003	0.0008	0.006	No	17	0.002581	0.0009356	82.35	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-47	0.003	0.0012	0.006	No	18	0.0029	0.0004243	94.44	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-48	0.003	0.0018	0.006	No	18	0.002788	0.0006618	88.89	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-5	0.003	0.0015	0.006	No	17	0.002754	0.0007248	88.24	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-8	0.003	0.00046	0.006	No	17	0.002851	0.000616	94.12	None	No	0.01	NP (NDs)
Arsenic (mg/L)	B-101D	0.005	0.0017	0.01	No	6	0.00445	0.001347	83.33	None	No	0.0155	NP (NDs)
Arsenic (mg/L)	B-104D	0.005	0.0019	0.01	No	7	0.003986	0.001348	57.14	None	No	0.008	NP (NDs)
Arsenic (mg/L)	B-109D	0.005	0.0026	0.01	No	6	0.0046	0.0009798	83.33	None	No	0.0155	NP (NDs)
Arsenic (mg/L)	B-111D	0.005	0.0022	0.01	No	7	0.003914	0.001372	57.14	None	No	0.008	NP (NDs)
Arsenic (mg/L)	B-120D	0.005	0.0016	0.01	No	5	0.00432	0.001521	80	None	No	0.031	NP (NDs)
Arsenic (mg/L)	B-56	0.004889	0.00254	0.01	No	7	0.003714	0.000989	14.29	None	No	0.01	Param.
Arsenic (mg/L)	B-62	0.005	0.005	0.01	No	10	0.00483	0.0005376	90	None	No	0.011	NP (NDs)
Arsenic (mg/L)	B-63	0.005	0.0022	0.01	No	7	0.0046	0.001058	85.71	None	No	0.008	NP (NDs)
Arsenic (mg/L)	B-77	0.005	0.002	0.01	No	9	0.0036	0.00137	44.44	None	No	0.002	NP (normality)
Arsenic (mg/L)	B-82	0.005	0.003	0.01	No	9	0.004667	0.0007071	77.78	None	No	0.002	NP (NDs)
Arsenic (mg/L)	B-83	0.005	0.0014	0.01	No	8	0.00455	0.001273	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	B-92	0.002721	0.0006126	0.01	No	4	0.0025	0.00173	25	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	B-93	0.002918	0.001482	0.01	No	7	0.0034	0.001576	42.86	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	B-97	0.005	0.0014	0.01	No	4	0.0041	0.0018	75	Kaplan-Meier	No	0.0625	NP (NDs)
Arsenic (mg/L)	DGWC-10	0.00646	0.003329	0.01	No	17	0.004894	0.002498	5.882	None	No	0.01	Param.
Arsenic (mg/L)	DGWC-12	0.005	0.00063	0.01	No	19	0.004538	0.001383	89.47	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-14	0.005	0.00039	0.01	No	18	0.004744	0.001087	94.44	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-15	0.005	0.0013	0.01	No	18	0.004308	0.001598	83.33	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-17	0.005	0.0011	0.01	No	18	0.003463	0.001991	61.11	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-19	0.0019	0.0009681	0.01	No	18	0.002564	0.001677	27.78	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	DGWC-2	0.005	0.0025	0.01	No	18	0.004488	0.00121	83.33	Kaplan-Meier	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-20	0.01713	0.009007	0.01	No	18	0.01307	0.00671	0	None	No	0.01	Param.
Arsenic (mg/L)	DGWC-22	0.005	0.001	0.01	No	18	0.004778	0.0009428	94.44	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-4	0.005	0.0011	0.01	No	17	0.003994	0.001873	76.47	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-42	0.005	0.0011	0.01	No	18	0.004544	0.001328	88.89	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-47	0.002645	0.001412	0.01	No	18	0.002944	0.001573	27.78	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	DGWC-48	0.005	0.0012	0.01	No	18	0.003505	0.001945	61.11	Kaplan-Meier	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-5	0.007914	0.002606	0.01	No	17	0.007206	0.009359	11.76	None	ln(x)	0.01	Param.

# Confidence Intervals - All Results

Plant McDonough    Client: Southern Company    Data: McDonough AP    Printed 5/4/2023, 3:01 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	DGWC-8	0.005	0.0015	0.01	No	17	0.003921	0.001736	70.59	None	No	0.01	NP (NDs)
<b>Arsenic (mg/L)</b>	<b>DGWC-9</b>	<b>0.02771</b>	<b>0.01603</b>	<b>0.01</b>	<b>Yes</b>	<b>18</b>	<b>0.02187</b>	<b>0.009656</b>	<b>5.556</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Barium (mg/L)	B-100	0.098	0.015	2	No	7	0.03171	0.02935	0	None	No	0.008	NP (normality)
Barium (mg/L)	B-101D	0.07917	0.05049	2	No	6	0.06483	0.01044	0	None	No	0.01	Param.
Barium (mg/L)	B-102D	0.02331	0.01926	2	No	7	0.02129	0.001704	0	None	No	0.01	Param.
Barium (mg/L)	B-104D	0.02505	0.01837	2	No	7	0.02171	0.002812	0	None	No	0.01	Param.
Barium (mg/L)	B-106D	0.02223	0.01977	2	No	6	0.021	0.0008944	0	None	No	0.01	Param.
Barium (mg/L)	B-107D	0.1338	0.04453	2	No	6	0.08917	0.03249	0	None	No	0.01	Param.
Barium (mg/L)	B-108D	0.06512	0.05054	2	No	6	0.05783	0.005307	0	None	No	0.01	Param.
Barium (mg/L)	B-109D	0.0626	0.03436	2	No	6	0.0495	0.01415	0	None	x^3	0.01	Param.
Barium (mg/L)	B-111D	0.043	0.027	2	No	7	0.03271	0.006726	0	None	No	0.008	NP (normality)
Barium (mg/L)	B-120D	0.04436	0.01324	2	No	5	0.0288	0.009284	0	None	No	0.01	Param.
Barium (mg/L)	B-56	0.02985	0.02587	2	No	7	0.02786	0.001676	0	None	No	0.01	Param.
Barium (mg/L)	B-62	0.0255	0.0193	2	No	10	0.0224	0.003471	0	None	No	0.01	Param.
Barium (mg/L)	B-63	0.04199	0.01784	2	No	7	0.02914	0.01263	0	None	ln(x)	0.01	Param.
Barium (mg/L)	B-66	0.02191	0.01609	2	No	7	0.019	0.002449	0	None	No	0.01	Param.
Barium (mg/L)	B-77	0.1224	0.09429	2	No	9	0.1083	0.01454	0	None	No	0.01	Param.
Barium (mg/L)	B-82	0.02898	0.02077	2	No	8	0.02488	0.003871	0	None	No	0.01	Param.
Barium (mg/L)	B-83	0.056	0.024	2	No	8	0.0315	0.01058	0	None	No	0.004	NP (normality)
Barium (mg/L)	B-88	0.02216	0.0157	2	No	7	0.01886	0.002734	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	B-92	0.01792	0.01358	2	No	4	0.01575	0.0009574	0	None	No	0.01	Param.
Barium (mg/L)	B-93	0.01937	0.01434	2	No	7	0.01686	0.002116	0	None	No	0.01	Param.
Barium (mg/L)	B-97	0.021	0.02	2	No	4	0.02025	0.0005	0	None	No	0.0625	NP (normality)
Barium (mg/L)	B-98	0.092	0.035	2	No	4	0.0625	0.02869	0	None	No	0.0625	NP (selected)
Barium (mg/L)	DGWC-10	0.0283	0.02214	2	No	17	0.02522	0.004916	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-11	0.06429	0.05247	2	No	17	0.05838	0.009432	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-12	0.03562	0.02551	2	No	19	0.03094	0.009145	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	DGWC-13	0.03205	0.02695	2	No	17	0.02854	0.006817	5.882	None	x^3	0.01	Param.
Barium (mg/L)	DGWC-14	0.06251	0.05833	2	No	18	0.06042	0.003451	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-15	0.04944	0.0433	2	No	18	0.04637	0.00507	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-17	0.05326	0.03854	2	No	18	0.0459	0.01217	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-19	0.02559	0.0224	2	No	18	0.02399	0.002629	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-2	0.023	0.0206	2	No	18	0.02178	0.001114	0	None	No	0.01	NP (normality)
Barium (mg/L)	DGWC-20	0.01583	0.01012	2	No	18	0.01323	0.004702	5.556	None	sqrt(x)	0.01	Param.
Barium (mg/L)	DGWC-21	0.027	0.024	2	No	18	0.02563	0.001559	0	None	No	0.01	NP (normality)
Barium (mg/L)	DGWC-22	0.03655	0.03095	2	No	18	0.03375	0.004633	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-23	0.0234	0.01897	2	No	18	0.02128	0.003837	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	DGWC-4	0.03572	0.03247	2	No	17	0.03409	0.002591	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-42	0.01956	0.01589	2	No	18	0.0178	0.003157	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	DGWC-47	0.01976	0.01645	2	No	18	0.01811	0.002737	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-48	0.0155	0.013	2	No	18	0.01367	0.000943	0	None	No	0.01	NP (normality)
Barium (mg/L)	DGWC-5	0.01836	0.01681	2	No	16	0.01759	0.001194	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-8	0.03577	0.02517	2	No	17	0.03047	0.008452	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-9	0.0166	0.01506	2	No	18	0.01583	0.001275	0	None	No	0.01	Param.
Beryllium (mg/L)	B-100	0.0005817	0.000304	0.004	No	7	0.0004429	0.0001169	14.29	None	No	0.01	Param.
Beryllium (mg/L)	B-101D	0.00007901	0.00005065	0.004	No	6	0.00006483	0.00001032	0	None	No	0.01	Param.
Beryllium (mg/L)	B-102D	0.001346	0.000943	0.004	No	7	0.001144	0.0001695	0	None	No	0.01	Param.
Beryllium (mg/L)	B-104D	0.001585	0.001158	0.004	No	7	0.001371	0.0001799	0	None	No	0.01	Param.
Beryllium (mg/L)	B-106D	0.0001376	0.00009037	0.004	No	6	0.000114	0.0000172	0	None	No	0.01	Param.
Beryllium (mg/L)	B-107D	0.0005	0.00005	0.004	No	6	0.000425	0.0001837	83.33	None	No	0.0155	NP (NDs)
Beryllium (mg/L)	B-109D	0.0005	0.000059	0.004	No	6	0.0001437	0.0001747	16.67	None	No	0.0155	NP (normality)
Beryllium (mg/L)	B-120D	0.001186	0.000782	0.004	No	5	0.000984	0.0001205	0	None	No	0.01	Param.
Beryllium (mg/L)	B-56	0.001296	0.001132	0.004	No	7	0.001214	0.00006901	0	None	No	0.01	Param.
Beryllium (mg/L)	B-62	0.0025	0.00009	0.004	No	11	0.0005516	0.0009635	18.18	None	No	0.006	NP (normality)
Beryllium (mg/L)	B-63	0.0015	0.00028	0.004	No	9	0.0005122	0.0003796	11.11	None	No	0.002	NP (normality)
Beryllium (mg/L)	B-77	0.0005	0.000053	0.004	No	9	0.0002767	0.0002138	44.44	None	No	0.002	NP (normality)

# Confidence Intervals - All Results

Plant McDonough    Client: Southern Company    Data: McDonough AP    Printed 5/4/2023, 3:01 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	B-82	0.001986	0.001289	0.004	No	8	0.001638	0.0003292	0	None	No	0.01	Param.
Beryllium (mg/L)	B-83	0.0005267	0.0002862	0.004	No	8	0.0004038	0.0001319	0	None	ln(x)	0.01	Param.
Beryllium (mg/L)	B-88	0.003353	0.0005465	0.004	No	7	0.001833	0.001455	0	None	sqrt(x)	0.01	Param.
<b>Beryllium (mg/L)</b>	<b>B-92</b>	<b>0.02106</b>	<b>0.01394</b>	<b>0.004</b>	<b>Yes</b>	<b>6</b>	<b>0.0175</b>	<b>0.002588</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Beryllium (mg/L)</b>	<b>B-93</b>	<b>0.01711</b>	<b>0.01342</b>	<b>0.004</b>	<b>Yes</b>	<b>8</b>	<b>0.01486</b>	<b>0.003348</b>	<b>0</b>	<b>None</b>	<b>x^5</b>	<b>0.01</b>	<b>Param.</b>
Beryllium (mg/L)	B-97	0.001888	0.00154	0.004	No	7	0.001714	0.0001464	14.29	None	No	0.01	Param.
Beryllium (mg/L)	B-98	0.00087	0.000062	0.004	No	7	0.0004286	0.0002827	57.14	None	No	0.008	NP (NDs)
<b>Beryllium (mg/L)</b>	<b>DGWC-10</b>	<b>0.008872</b>	<b>0.005975</b>	<b>0.004</b>	<b>Yes</b>	<b>17</b>	<b>0.007424</b>	<b>0.002311</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Beryllium (mg/L)	DGWC-11	0.003	0.00013	0.004	No	17	0.001324	0.001445	41.18	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-12	0.00049	0.00011	0.004	No	19	0.0003726	0.0006498	15.79	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-13	0.003	0.00007	0.004	No	17	0.001623	0.001505	52.94	None	No	0.01	NP (NDs)
Beryllium (mg/L)	DGWC-15	0.003	0.00022	0.004	No	18	0.0005988	0.0006111	88.89	None	No	0.01	NP (NDs)
Beryllium (mg/L)	DGWC-17	0.00066	0.00051	0.004	No	18	0.0006817	0.0003034	11.11	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-19	0.001979	0.001743	0.004	No	18	0.001861	0.0001944	11.11	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-20	0.005237	0.002716	0.004	No	18	0.004139	0.002198	11.11	None	sqrt(x)	0.01	Param.
Beryllium (mg/L)	DGWC-21	0.0002	0.00015	0.004	No	18	0.0003133	0.000433	11.11	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-22	0.00023	0.00014	0.004	No	18	0.0003117	0.0004338	11.11	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-23	0.0005	0.00038	0.004	No	18	0.0005544	0.0003563	11.11	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-4	0.00034	0.00019	0.004	No	17	0.0003818	0.0004264	11.76	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-42	0.00267	0.002107	0.004	No	18	0.002389	0.0004651	5.556	None	No	0.01	Param.
<b>Beryllium (mg/L)</b>	<b>DGWC-47</b>	<b>0.01224</b>	<b>0.009073</b>	<b>0.004</b>	<b>Yes</b>	<b>18</b>	<b>0.01066</b>	<b>0.002616</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Beryllium (mg/L)</b>	<b>DGWC-48</b>	<b>0.008902</b>	<b>0.007309</b>	<b>0.004</b>	<b>Yes</b>	<b>18</b>	<b>0.008106</b>	<b>0.001316</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Beryllium (mg/L)</b>	<b>DGWC-5</b>	<b>0.008777</b>	<b>0.006623</b>	<b>0.004</b>	<b>Yes</b>	<b>17</b>	<b>0.0077</b>	<b>0.001719</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Beryllium (mg/L)	DGWC-8	0.002658	0.001367	0.004	No	17	0.002087	0.001127	5.882	None	sqrt(x)	0.01	Param.
<b>Beryllium (mg/L)</b>	<b>DGWC-9</b>	<b>0.005746</b>	<b>0.004909</b>	<b>0.004</b>	<b>Yes</b>	<b>18</b>	<b>0.005328</b>	<b>0.0006918</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cadmium (mg/L)	B-100	0.00059	0.00025	0.005	No	7	0.0003614	0.0001566	14.29	None	No	0.008	NP (normality)
Cadmium (mg/L)	B-101D	0.0005	0.00011	0.005	No	6	0.000435	0.0001592	83.33	None	No	0.0155	NP (NDs)
Cadmium (mg/L)	B-102D	0.0009271	0.00073	0.005	No	7	0.0008286	0.00008295	0	None	No	0.01	Param.
Cadmium (mg/L)	B-106D	0.0002594	0.0001308	0.005	No	6	0.000295	0.0001637	33.33	Kaplan-Meier	sqrt(x)	0.01	Param.
Cadmium (mg/L)	B-120D	0.001225	0.0009273	0.005	No	5	0.001076	0.00008877	0	None	No	0.01	Param.
Cadmium (mg/L)	B-56	0.0003307	0.000235	0.005	No	7	0.0002829	0.0000403	0	None	No	0.01	Param.
Cadmium (mg/L)	B-63	0.0005	0.00014	0.005	No	7	0.0003671	0.0001688	57.14	None	No	0.008	NP (NDs)
Cadmium (mg/L)	B-82	0.0007904	0.0004571	0.005	No	8	0.0006238	0.0001572	0	None	No	0.01	Param.
Cadmium (mg/L)	B-83	0.0003711	0.0002714	0.005	No	8	0.0003213	0.00004704	0	None	No	0.01	Param.
Cadmium (mg/L)	B-88	0.005092	0.0002277	0.005	No	7	0.00266	0.002048	0	None	No	0.01	Param.
Cadmium (mg/L)	B-92	0.001839	0.0005909	0.005	No	4	0.001215	0.0002749	0	None	No	0.01	Param.
Cadmium (mg/L)	B-93	0.0008816	0.0007355	0.005	No	7	0.0008086	0.00006149	0	None	No	0.01	Param.
Cadmium (mg/L)	B-97	0.00063	0.00055	0.005	No	4	0.0005725	0.00003862	0	None	No	0.0625	NP (normality)
Cadmium (mg/L)	B-98	0.0005	0.0003	0.005	No	4	0.0004025	0.0001127	50	None	No	0.0625	NP (normality)
Cadmium (mg/L)	DGWC-10	0.001125	0.0007431	0.005	No	17	0.0009341	0.0003048	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-11	0.0005	0.00015	0.005	No	17	0.0003953	0.0001674	70.59	None	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-12	0.0003235	0.0002141	0.005	No	19	0.0003937	0.0001862	31.58	Kaplan-Meier	x^(1/3)	0.01	Param.
Cadmium (mg/L)	DGWC-13	0.0005	0.0002	0.005	No	17	0.0004576	0.0001214	88.24	Kaplan-Meier	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-15	0.001	0.00013	0.005	No	18	0.0004406	0.0002175	77.78	None	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-17	0.0003	0.00023	0.005	No	18	0.0002928	0.00008365	11.11	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-19	0.000414	0.0003449	0.005	No	18	0.0003794	0.00005713	11.11	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-2	0.0005	0.00014	0.005	No	18	0.0003889	0.000218	44.44	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-20	0.00233	0.001815	0.005	No	18	0.002072	0.0004254	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-21	0.0006158	0.0003591	0.005	No	18	0.0005806	0.000199	16.67	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	DGWC-22	0.0006241	0.0004637	0.005	No	18	0.0005439	0.0001326	11.11	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-23	0.0002881	0.000185	0.005	No	18	0.0002472	0.000104	11.11	None	ln(x)	0.01	Param.
Cadmium (mg/L)	DGWC-4	0.0008388	0.0006271	0.005	No	17	0.0007329	0.000169	11.76	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-42	0.0009002	0.0004679	0.005	No	18	0.0007594	0.0005182	11.11	None	ln(x)	0.01	Param.
Cadmium (mg/L)	DGWC-47	0.00206	0.001273	0.005	No	18	0.001667	0.0006508	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-48	0.0036	0.0026	0.005	No	18	0.003378	0.001566	0	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-5	0.0008412	0.0004882	0.005	No	17	0.0006647	0.0002817	11.76	None	No	0.01	Param.

# Confidence Intervals - All Results

Plant McDonough    Client: Southern Company    Data: McDonough AP    Printed 5/4/2023, 3:01 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cadmium (mg/L)	DGWC-8	0.002406	0.001708	0.005	No	17	0.002057	0.0005563	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-9	0.0006234	0.0005177	0.005	No	18	0.0005706	0.00008734	11.11	None	No	0.01	Param.
Chromium (mg/L)	B-100	0.005	0.00057	0.1	No	7	0.003787	0.002074	71.43	None	No	0.008	NP (NDs)
Chromium (mg/L)	B-101D	0.005	0.0014	0.1	No	6	0.0044	0.00147	83.33	None	No	0.0155	NP (NDs)
Chromium (mg/L)	B-104D	0.005	0.0011	0.1	No	7	0.004443	0.001474	85.71	None	No	0.008	NP (NDs)
Chromium (mg/L)	B-106D	0.005	0.0013	0.1	No	6	0.004383	0.001511	83.33	None	No	0.0155	NP (NDs)
Chromium (mg/L)	B-109D	0.005	0.00061	0.1	No	6	0.004268	0.001792	83.33	None	No	0.0155	NP (NDs)
Chromium (mg/L)	B-56	0.005	0.00059	0.1	No	7	0.003341	0.002086	57.14	None	No	0.008	NP (NDs)
Chromium (mg/L)	B-62	0.005	0.005	0.1	No	10	0.004598	0.001271	90	None	No	0.011	NP (NDs)
Chromium (mg/L)	B-63	0.005	0.00064	0.1	No	7	0.004377	0.001648	85.71	None	No	0.008	NP (NDs)
Chromium (mg/L)	B-77	0.005	0.00068	0.1	No	9	0.003273	0.002088	55.56	None	No	0.002	NP (NDs)
Chromium (mg/L)	B-82	0.005	0.0011	0.1	No	8	0.00405	0.00176	75	None	No	0.004	NP (NDs)
Chromium (mg/L)	B-83	0.004919	0.002056	0.1	No	8	0.003488	0.001351	0	None	No	0.01	Param.
Chromium (mg/L)	B-88	0.005	0.00085	0.1	No	7	0.003421	0.001984	57.14	None	No	0.008	NP (NDs)
Chromium (mg/L)	B-93	0.005	0.00057	0.1	No	7	0.00319	0.002263	57.14	None	No	0.008	NP (NDs)
Chromium (mg/L)	B-98	0.005	0.0013	0.1	No	4	0.003175	0.002108	50	None	No	0.0625	NP (normality)
Chromium (mg/L)	DGWC-10	0.005	0.0008	0.1	No	17	0.002347	0.002025	35.29	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-11	0.005	0.00061	0.1	No	17	0.003964	0.001925	76.47	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-12	0.005	0.00099	0.1	No	19	0.004575	0.001272	89.47	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-13	0.005	0.0009	0.1	No	17	0.003994	0.001871	76.47	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-15	0.01	0.0048	0.1	No	18	0.004519	0.002186	77.78	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-17	0.0033	0.0024	0.1	No	18	0.002972	0.0008101	11.11	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-19	0.0031	0.0023	0.1	No	18	0.003822	0.002857	16.67	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-2	0.005	0.0005	0.1	No	18	0.003509	0.00217	66.67	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-20	0.005	0.0015	0.1	No	18	0.003211	0.002249	33.33	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-21	0.005	0.0006	0.1	No	18	0.003608	0.002052	66.67	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-22	0.005	0.0012	0.1	No	18	0.004789	0.0008957	94.44	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-23	0.005	0.0007	0.1	No	18	0.002656	0.00217	44.44	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-4	0.005	0.0005	0.1	No	17	0.004735	0.001091	94.12	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-42	0.005	0.0008	0.1	No	18	0.003402	0.002091	61.11	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-47	0.005	0.0007	0.1	No	18	0.004761	0.001014	94.44	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-48	0.005	0.0007	0.1	No	18	0.004506	0.00144	88.89	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-5	0.005	0.00045	0.1	No	17	0.004732	0.001104	94.12	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-8	0.005	0.0013	0.1	No	17	0.003675	0.001912	64.71	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-9	0.005	0.00061	0.1	No	18	0.003505	0.002082	55.56	None	No	0.01	NP (NDs)
Cobalt (mg/L)	B-100	0.07642	0.01578	0.032	No	9	0.04583	0.02991	11.11	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	B-101D	0.003612	0.002121	0.032	No	6	0.002867	0.0005428	0	None	No	0.01	Param.
Cobalt (mg/L)	B-102D	0.01493	0.01165	0.032	No	7	0.01329	0.00138	0	None	No	0.01	Param.
<b>Cobalt (mg/L)</b>	<b>B-104D</b>	<b>0.1977</b>	<b>0.1052</b>	<b>0.032</b>	<b>Yes</b>	<b>7</b>	<b>0.1514</b>	<b>0.03891</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	B-106D	0.005	0.00056	0.032	No	6	0.002855	0.002352	50	None	No	0.0155	NP (normality)
Cobalt (mg/L)	B-107D	0.001541	0.0004323	0.032	No	6	0.0009867	0.0004036	0	None	No	0.01	Param.
Cobalt (mg/L)	B-108D	0.0048	0.00061	0.032	No	6	0.001802	0.001531	0	None	No	0.0155	NP (selected)
Cobalt (mg/L)	B-111D	0.005	0.0004	0.032	No	7	0.001827	0.002172	28.57	None	No	0.008	NP (normality)
Cobalt (mg/L)	B-120D	0.017	0.0025	0.032	No	5	0.00644	0.006035	0	None	No	0.031	NP (selected)
<b>Cobalt (mg/L)</b>	<b>B-56</b>	<b>0.05613</b>	<b>0.04187</b>	<b>0.032</b>	<b>Yes</b>	<b>7</b>	<b>0.049</b>	<b>0.006</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	B-62	0.005	0.00031	0.032	No	11	0.004146	0.001899	81.82	None	No	0.006	NP (NDs)
<b>Cobalt (mg/L)</b>	<b>B-63</b>	<b>0.05052</b>	<b>0.03385</b>	<b>0.032</b>	<b>Yes</b>	<b>8</b>	<b>0.04219</b>	<b>0.007865</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	B-66	0.01385	0.006255	0.032	No	8	0.01005	0.003581	12.5	None	No	0.01	Param.
Cobalt (mg/L)	B-77	0.002581	0.0007594	0.032	No	9	0.003156	0.001893	44.44	Kaplan-Meier	sqrt(x)	0.01	Param.
Cobalt (mg/L)	B-82	0.00561	0.001716	0.032	No	9	0.00365	0.002304	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	B-83	0.01753	0.008023	0.032	No	8	0.01278	0.004483	0	None	No	0.01	Param.
Cobalt (mg/L)	B-88	0.022	0.00135	0.032	No	8	0.006831	0.008243	0	None	No	0.004	NP (normality)
<b>Cobalt (mg/L)</b>	<b>B-92</b>	<b>0.08763</b>	<b>0.05587</b>	<b>0.032</b>	<b>Yes</b>	<b>4</b>	<b>0.07175</b>	<b>0.006994</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Cobalt (mg/L)</b>	<b>B-93</b>	<b>0.06742</b>	<b>0.05983</b>	<b>0.032</b>	<b>Yes</b>	<b>8</b>	<b>0.06363</b>	<b>0.003583</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	B-97	0.003443	0.002657	0.032	No	4	0.00305	0.0001732	0	None	No	0.01	Param.
Cobalt (mg/L)	B-98	0.005	0.00063	0.032	No	6	0.004238	0.00177	66.67	None	No	0.0155	NP (NDs)

# Confidence Intervals - All Results

Plant McDonough    Client: Southern Company    Data: McDonough AP    Printed 5/4/2023, 3:01 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
<b>Cobalt (mg/L)</b>	<b>DGWC-10</b>	<b>0.193</b>	<b>0.086</b>	<b>0.032</b>	<b>Yes</b>	<b>17</b>	<b>0.1421</b>	<b>0.05193</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>NP (normality)</b>
Cobalt (mg/L)	DGWC-11	0.01	0.00065	0.032	No	17	0.00409	0.004506	35.29	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-12	0.01142	0.003676	0.032	No	19	0.01008	0.009901	10.53	None	ln(x)	0.01	Param.
Cobalt (mg/L)	DGWC-13	0.005	0.0005	0.032	No	17	0.004193	0.001797	82.35	None	No	0.01	NP (NDs)
Cobalt (mg/L)	DGWC-15	0.0028	0.0016	0.032	No	18	0.00345	0.005464	5.556	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-17	0.02594	0.01838	0.032	No	18	0.02216	0.006248	5.556	None	No	0.01	Param.
<b>Cobalt (mg/L)</b>	<b>DGWC-19</b>	<b>0.05344</b>	<b>0.04991</b>	<b>0.032</b>	<b>Yes</b>	<b>18</b>	<b>0.05168</b>	<b>0.002916</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	DGWC-2	0.02052	0.007091	0.032	No	18	0.01518	0.01187	0	None	sqrt(x)	0.01	Param.
<b>Cobalt (mg/L)</b>	<b>DGWC-20</b>	<b>0.7103</b>	<b>0.4987</b>	<b>0.032</b>	<b>Yes</b>	<b>18</b>	<b>0.6146</b>	<b>0.1855</b>	<b>0</b>	<b>None</b>	<b>x^(1/3)</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	DGWC-21	0.00959	0.00827	0.032	No	18	0.008683	0.001555	11.11	None	x^4	0.01	Param.
Cobalt (mg/L)	DGWC-22	0.009638	0.007428	0.032	No	18	0.008533	0.001827	11.11	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-23	0.005	0.00043	0.032	No	18	0.003011	0.002858	50	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-4	0.002	0.0015	0.032	No	17	0.002135	0.001094	11.76	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-42	0.03593	0.01335	0.032	No	18	0.0268	0.02053	0	None	sqrt(x)	0.01	Param.
<b>Cobalt (mg/L)</b>	<b>DGWC-47</b>	<b>0.3614</b>	<b>0.2442</b>	<b>0.032</b>	<b>Yes</b>	<b>18</b>	<b>0.3028</b>	<b>0.09687</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Cobalt (mg/L)</b>	<b>DGWC-48</b>	<b>0.4852</b>	<b>0.3792</b>	<b>0.032</b>	<b>Yes</b>	<b>18</b>	<b>0.4322</b>	<b>0.08761</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	DGWC-5	0.0351	0.0209	0.032	No	17	0.02731	0.01016	0	None	No	0.01	NP (normality)
<b>Cobalt (mg/L)</b>	<b>DGWC-8</b>	<b>0.07835</b>	<b>0.03328</b>	<b>0.032</b>	<b>Yes</b>	<b>17</b>	<b>0.05581</b>	<b>0.03597</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Cobalt (mg/L)</b>	<b>DGWC-9</b>	<b>0.2082</b>	<b>0.1546</b>	<b>0.032</b>	<b>Yes</b>	<b>18</b>	<b>0.1814</b>	<b>0.04426</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Combined Radium 226 + 228 (pCi/L)	B-100	1.229	0.352	5.01	No	7	0.7906	0.3692	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-101D	2.386	0.6659	5.01	No	6	1.526	0.6261	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-102D	1.74	0.61	5.01	No	7	0.8997	0.4279	0	None	No	0.008	NP (normality)
<b>Combined Radium 226 + 228 (pCi/L)</b>	<b>B-104D</b>	<b>16.72</b>	<b>9.597</b>	<b>5.01</b>	<b>Yes</b>	<b>7</b>	<b>13.16</b>	<b>2.999</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Combined Radium 226 + 228 (pCi/L)	B-106D	0.8891	0.4472	5.01	No	6	0.6682	0.1608	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-107D	1.967	0.2931	5.01	No	6	1.13	0.6091	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-108D	1.842	0.6226	5.01	No	6	1.232	0.4439	0	None	No	0.01	Param.
<b>Combined Radium 226 + 228 (pCi/L)</b>	<b>B-109D</b>	<b>18.47</b>	<b>9.447</b>	<b>5.01</b>	<b>Yes</b>	<b>6</b>	<b>13.96</b>	<b>3.284</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Combined Radium 226 + 228 (pCi/L)	B-111D	10.94	4.356	5.01	No	7	7.646	2.769	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-120D	3.68	1.21	5.01	No	5	2.246	0.9117	0	None	No	0.031	NP (selected)
Combined Radium 226 + 228 (pCi/L)	B-56	1.259	0.7402	5.01	No	7	0.9996	0.2184	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-62	1.913	1.387	5.01	No	9	1.65	0.2725	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-63	2.083	0.772	5.01	No	6	1.428	0.4773	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-66	1.07	0	5.01	No	6	0.677	0.3997	0	None	No	0.0155	NP (selected)
Combined Radium 226 + 228 (pCi/L)	B-77	1.985	0.6539	5.01	No	8	1.294	0.6617	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-82	0.9428	0.4483	5.01	No	7	0.6956	0.2082	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-83	1.034	0.2386	5.01	No	8	0.6364	0.3753	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-88	2.542	0.6599	5.01	No	7	1.601	0.7922	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-92	2.926	0.5936	5.01	No	4	1.76	0.5137	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-93	1.778	0.7603	5.01	No	7	1.269	0.4284	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-97	2.481	0.5295	5.01	No	4	1.505	0.4297	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-98	2.2	0.52	5.01	No	4	1.406	0.8344	0	None	No	0.0625	NP (selected)
Combined Radium 226 + 228 (pCi/L)	DGWC-10	1.453	1.091	5.01	No	18	1.272	0.2998	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-11	1.207	0.6914	5.01	No	18	0.9492	0.4261	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-12	1.164	0.4554	5.01	No	18	0.8742	0.6556	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-13	1.404	0.9276	5.01	No	18	1.166	0.3938	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-14	1.031	0.6375	5.01	No	18	0.8344	0.3254	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-15	1.395	0.5849	5.01	No	18	1.059	0.8093	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-17	0.9861	0.5871	5.01	No	18	0.7866	0.3297	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-19	1.006	0.5402	5.01	No	18	0.7733	0.3852	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-2	1.332	0.8	5.01	No	18	1.066	0.4399	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-20	1.532	0.942	5.01	No	18	1.237	0.4879	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-21	1.04	0.5742	5.01	No	18	0.807	0.3848	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-22	1.278	0.7236	5.01	No	18	1.001	0.4582	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-23	1.425	0.8208	5.01	No	18	1.123	0.4994	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-4	1.664	1.205	5.01	No	18	1.434	0.3787	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-42	1.097	0.6504	5.01	No	18	0.8735	0.3686	0	None	No	0.01	Param.

# Confidence Intervals - All Results

Plant McDonough    Client: Southern Company    Data: McDonough AP    Printed 5/4/2023, 3:01 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)	DGWC-47	2.716	1.697	5.01	No	18	2.206	0.842	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-48	2.302	1.469	5.01	No	18	1.885	0.6879	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-5	1.702	0.9871	5.01	No	18	1.345	0.5909	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-8	0.818	0.5033	5.01	No	18	0.6607	0.2601	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-9	1.38	0.9599	5.01	No	18	1.17	0.3469	0	None	No	0.01	Param.
Fluoride (mg/L)	B-100	0.1	0.052	4	No	7	0.08914	0.01942	71.43	None	No	0.008	NP (NDs)
Fluoride (mg/L)	B-101D	0.11	0.051	4	No	6	0.0775	0.0282	16.67	None	No	0.0155	NP (selected)
Fluoride (mg/L)	B-102D	0.1084	0.06642	4	No	7	0.08743	0.01769	0	None	No	0.01	Param.
Fluoride (mg/L)	B-104D	0.4579	0.2878	4	No	7	0.3729	0.07158	0	None	No	0.01	Param.
Fluoride (mg/L)	B-106D	0.07618	0.04622	4	No	6	0.06767	0.01923	16.67	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	B-107D	0.1	0.053	4	No	6	0.09217	0.01919	83.33	Kaplan-Meier	No	0.0155	NP (NDs)
Fluoride (mg/L)	B-108D	0.1	0.061	4	No	6	0.0935	0.01592	83.33	None	No	0.0155	NP (NDs)
Fluoride (mg/L)	B-109D	0.1703	0.1163	4	No	6	0.1433	0.01966	0	None	No	0.01	Param.
Fluoride (mg/L)	B-111D	0.5184	0.3016	4	No	7	0.4071	0.09517	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	B-120D	0.1	0.052	4	No	5	0.0818	0.02498	60	None	No	0.031	NP (NDs)
Fluoride (mg/L)	B-56	0.2914	0.1223	4	No	7	0.2069	0.07115	0	None	No	0.01	Param.
Fluoride (mg/L)	B-62	0.43	0.093	4	No	9	0.1669	0.1072	0	None	No	0.002	NP (normality)
Fluoride (mg/L)	B-63	0.45	0.12	4	No	6	0.2	0.1257	0	None	No	0.0155	NP (normality)
Fluoride (mg/L)	B-66	0.4448	0.03858	4	No	6	0.2417	0.1478	0	None	No	0.01	Param.
Fluoride (mg/L)	B-77	0.1	0.069	4	No	8	0.09038	0.01265	50	None	No	0.004	NP (normality)
Fluoride (mg/L)	B-82	0.1399	0.04502	4	No	7	0.1024	0.04637	42.86	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	B-83	0.1102	0.05284	4	No	8	0.08975	0.02756	25	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	B-88	0.1	0.054	4	No	7	0.09343	0.01739	85.71	Kaplan-Meier	No	0.008	NP (NDs)
Fluoride (mg/L)	B-92	0.3501	0.1099	4	No	4	0.23	0.05292	0	None	No	0.01	Param.
Fluoride (mg/L)	B-93	0.411	0.3062	4	No	7	0.3586	0.04413	0	None	No	0.01	Param.
Fluoride (mg/L)	B-97	0.1634	0.04806	4	No	4	0.1058	0.02541	0	None	No	0.01	Param.
Fluoride (mg/L)	B-98	0.2476	0.05138	4	No	4	0.1495	0.04322	0	None	No	0.01	Param.
Fluoride (mg/L)	DGWC-10	1.793	1.302	4	No	19	1.548	0.4192	0	None	No	0.01	Param.
Fluoride (mg/L)	DGWC-11	0.1	0.06	4	No	18	0.08167	0.02491	61.11	None	No	0.01	NP (NDs)
Fluoride (mg/L)	DGWC-12	0.2	0.078	4	No	19	0.1479	0.1347	31.58	None	No	0.01	NP (normality)
Fluoride (mg/L)	DGWC-13	0.1616	0.08268	4	No	18	0.1363	0.09588	5.556	None	ln(x)	0.01	Param.
Fluoride (mg/L)	DGWC-14	0.1	0.059	4	No	19	0.08421	0.0255	63.16	None	No	0.01	NP (NDs)
Fluoride (mg/L)	DGWC-15	0.11	0.07	4	No	19	0.1008	0.04178	57.89	None	No	0.01	NP (NDs)
Fluoride (mg/L)	DGWC-17	0.31	0.084	4	No	19	0.1873	0.1471	15.79	None	No	0.01	NP (normality)
Fluoride (mg/L)	DGWC-19	0.3904	0.1621	4	No	19	0.3342	0.2973	5.263	None	ln(x)	0.01	Param.
Fluoride (mg/L)	DGWC-2	0.28	0.053	4	No	19	0.1334	0.1466	36.84	None	No	0.01	NP (normality)
Fluoride (mg/L)	DGWC-20	0.975	0.4713	4	No	19	0.7232	0.4302	5.263	None	No	0.01	Param.
Fluoride (mg/L)	DGWC-21	0.14	0.07	4	No	19	0.1031	0.06194	57.89	None	No	0.01	NP (NDs)
Fluoride (mg/L)	DGWC-22	0.12	0.068	4	No	19	0.1116	0.06226	47.37	None	No	0.01	NP (normality)
Fluoride (mg/L)	DGWC-23	0.1847	0.08543	4	No	19	0.1605	0.1446	10.53	None	ln(x)	0.01	Param.
Fluoride (mg/L)	DGWC-4	0.17	0.082	4	No	19	0.1284	0.1634	63.16	None	No	0.01	NP (NDs)
Fluoride (mg/L)	DGWC-42	0.1	0.06	4	No	19	0.09368	0.02006	89.47	None	No	0.01	NP (NDs)
Fluoride (mg/L)	DGWC-47	1.05	0.514	4	No	19	0.7821	0.4578	0	None	No	0.01	Param.
Fluoride (mg/L)	DGWC-48	1.042	0.5701	4	No	19	0.8374	0.4335	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	DGWC-5	0.5915	0.2121	4	No	18	0.5017	0.4404	5.556	None	ln(x)	0.01	Param.
Fluoride (mg/L)	DGWC-8	0.2693	0.0904	4	No	18	0.2561	0.2239	16.67	Kaplan-Meier	ln(x)	0.01	Param.
Fluoride (mg/L)	DGWC-9	1.33	0.9596	4	No	19	1.145	0.3161	0	None	No	0.01	Param.
Lead (mg/L)	B-100	0.001	0.000088	0.015	No	7	0.0006397	0.0004509	57.14	None	No	0.008	NP (NDs)
Lead (mg/L)	B-101D	0.001	0.000065	0.015	No	6	0.0008442	0.0003817	83.33	None	No	0.0155	NP (NDs)
Lead (mg/L)	B-102D	0.001	0.000037	0.015	No	7	0.0005923	0.0005085	57.14	None	No	0.008	NP (NDs)
Lead (mg/L)	B-104D	0.001	0.000051	0.015	No	7	0.0008644	0.0003587	85.71	None	No	0.008	NP (NDs)
Lead (mg/L)	B-107D	0.001	0.000044	0.015	No	6	0.0008407	0.0003903	83.33	None	No	0.0155	NP (NDs)
Lead (mg/L)	B-111D	0.001	0.000051	0.015	No	7	0.0007299	0.0004614	71.43	None	No	0.008	NP (NDs)
Lead (mg/L)	B-120D	0.001	0.00019	0.015	No	5	0.000838	0.0003622	80	None	No	0.031	NP (NDs)
Lead (mg/L)	B-56	0.001	0.000091	0.015	No	7	0.0006301	0.0004632	57.14	None	No	0.008	NP (NDs)
Lead (mg/L)	B-63	0.001	0.000047	0.015	No	7	0.0007314	0.0004587	71.43	None	No	0.008	NP (NDs)

# Confidence Intervals - All Results

Plant McDonough    Client: Southern Company    Data: McDonough AP    Printed 5/4/2023, 3:01 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	B-77	0.0016	0.00021	0.015	No	9	0.0008244	0.0004573	55.56	None	No	0.002	NP (NDs)
Lead (mg/L)	B-82	0.001	0.000059	0.015	No	8	0.0006661	0.0004616	62.5	None	No	0.004	NP (NDs)
Lead (mg/L)	B-83	0.001	0.000065	0.015	No	8	0.0006594	0.0004497	50	None	No	0.004	NP (normality)
Lead (mg/L)	B-88	0.004108	0.0002521	0.015	No	7	0.002623	0.004173	42.86	Kaplan-Meier	ln(x)	0.01	Param.
Lead (mg/L)	B-93	0.001	0.00012	0.015	No	7	0.0007486	0.0004294	71.43	Kaplan-Meier	No	0.008	NP (NDs)
Lead (mg/L)	DGWC-10	0.005	0.00013	0.015	No	17	0.003281	0.002399	64.71	Kaplan-Meier	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-11	0.001	0.00012	0.015	No	17	0.0007352	0.0004232	70.59	Kaplan-Meier	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-12	0.001	0.00011	0.015	No	19	0.0009058	0.0002822	89.47	Kaplan-Meier	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-13	0.001	0.0002	0.015	No	17	0.0008999	0.0002832	88.24	Kaplan-Meier	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-14	0.001	0.000096	0.015	No	18	0.0008457	0.0003551	83.33	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-15	0.0012	0.0001	0.015	No	18	0.0007634	0.0004215	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-17	0.001	0.0001	0.015	No	18	0.0006552	0.0004454	61.11	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-19	0.001	0.00016	0.015	No	18	0.0007549	0.0004091	72.22	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-2	0.001	0.00009	0.015	No	18	0.0005963	0.0004647	55.56	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-20	0.005	0.00044	0.015	No	18	0.003443	0.00227	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-21	0.001	0.00015	0.015	No	18	0.0006814	0.0004165	61.11	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-23	0.001	0.000066	0.015	No	18	0.0009481	0.0002201	94.44	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-4	0.001	0.0002	0.015	No	17	0.0007923	0.0003869	76.47	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-42	0.0004248	0.0001625	0.015	No	18	0.0008456	0.001117	33.33	Kaplan-Meier	ln(x)	0.01	Param.
Lead (mg/L)	DGWC-47	0.001	0.0006	0.015	No	18	0.001067	0.001004	38.89	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-48	0.002	0.00095	0.015	No	18	0.001555	0.001091	16.67	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-5	0.001	0.000063	0.015	No	17	0.0006693	0.000631	47.06	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-8	0.001	0.00023	0.015	No	17	0.0006931	0.0004002	58.82	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-9	0.005	0.00028	0.015	No	18	0.0042	0.001841	83.33	None	No	0.01	NP (NDs)
Lithium (mg/L)	B-100	0.015	0.0013	0.04	No	7	0.004	0.00487	14.29	None	No	0.008	NP (normality)
Lithium (mg/L)	B-101D	0.01435	0.007921	0.04	No	6	0.01113	0.002338	0	None	No	0.01	Param.
Lithium (mg/L)	B-102D	0.01445	0.01126	0.04	No	7	0.01286	0.001345	0	None	No	0.01	Param.
Lithium (mg/L)	B-104D	0.03973	0.03599	0.04	No	7	0.03786	0.001574	0	None	No	0.01	Param.
Lithium (mg/L)	B-106D	0.005719	0.004948	0.04	No	6	0.005333	0.0002805	0	None	No	0.01	Param.
Lithium (mg/L)	B-107D	0.0165	0.01358	0.04	No	6	0.015	0.001095	0	None	ln(x)	0.01	Param.
Lithium (mg/L)	B-108D	0.016	0.014	0.04	No	6	0.01483	0.0009832	0	None	No	0.0155	NP (normality)
Lithium (mg/L)	B-109D	0.01554	0.01179	0.04	No	6	0.01367	0.001366	0	None	No	0.01	Param.
Lithium (mg/L)	B-111D	0.0284	0.01817	0.04	No	7	0.02329	0.004309	0	None	No	0.01	Param.
<b>Lithium (mg/L)</b>	<b>B-120D</b>	<b>0.0896</b>	<b>0.0656</b>	<b>0.04</b>	<b>Yes</b>	<b>5</b>	<b>0.0776</b>	<b>0.007162</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Lithium (mg/L)	B-56	0.005927	0.005044	0.04	No	7	0.005486	0.0003716	0	None	No	0.01	Param.
Lithium (mg/L)	B-62	0.0094	0.0078	0.04	No	10	0.01017	0.005237	10	None	No	0.011	NP (normality)
Lithium (mg/L)	B-63	0.025	0.0045	0.04	No	8	0.008563	0.006686	12.5	None	No	0.004	NP (normality)
Lithium (mg/L)	B-66	0.03	0.00073	0.04	No	7	0.02582	0.01106	85.71	None	No	0.008	NP (NDs)
Lithium (mg/L)	B-77	0.03	0.00095	0.04	No	9	0.01158	0.01386	33.33	None	No	0.002	NP (normality)
Lithium (mg/L)	B-82	0.0039	0.00073	0.04	No	8	0.001679	0.001309	0	None	No	0.004	NP (normality)
Lithium (mg/L)	B-83	0.003477	0.001851	0.04	No	8	0.00265	0.0008332	0	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	B-88	0.01599	0.001349	0.04	No	7	0.007729	0.009684	0	None	ln(x)	0.01	Param.
Lithium (mg/L)	B-92	0.01721	0.01079	0.04	No	4	0.014	0.001414	0	None	No	0.01	Param.
Lithium (mg/L)	B-93	0.013	0.011	0.04	No	7	0.01171	0.0009512	0	None	No	0.008	NP (normality)
Lithium (mg/L)	B-97	0.005659	0.003791	0.04	No	4	0.004725	0.0004113	0	None	No	0.01	Param.
Lithium (mg/L)	B-98	0.00152	0.0007248	0.04	No	4	0.001123	0.0001752	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-10	0.0059	0.0022	0.04	No	17	0.006524	0.007076	11.76	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-11	0.0027	0.0019	0.04	No	17	0.003582	0.005529	5.882	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-12	0.03	0.0011	0.04	No	19	0.02085	0.01384	68.42	None	No	0.01	NP (NDs)
Lithium (mg/L)	DGWC-13	0.0037	0.0029	0.04	No	17	0.005829	0.007223	11.76	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-14	0.0044	0.0034	0.04	No	18	0.005967	0.005876	5.556	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-15	0.0064	0.0057	0.04	No	17	0.006076	0.0008657	0	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-17	0.03	0.0011	0.04	No	18	0.02036	0.01403	66.67	None	No	0.01	NP (NDs)
Lithium (mg/L)	DGWC-19	0.0034	0.003	0.04	No	18	0.004378	0.005153	5.556	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-2	0.0807	0.023	0.04	No	18	0.04488	0.02911	5.556	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-20	0.012	0.0021	0.04	No	18	0.007817	0.006694	5.556	None	No	0.01	NP (normality)



# Confidence Intervals - All Results

Plant McDonough    Client: Southern Company    Data: McDonough AP    Printed 5/4/2023, 3:01 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	18	0.007039	0.0045	5.556	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-22	0.0046	0.0035	0.04	No	18	0.005139	0.004978	5.556	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-23	0.01097	0.003628	0.04	No	18	0.01083	0.01726	5.556	None	ln(x)	0.01	Param.
Lithium (mg/L)	DGWC-4	0.0036	0.0026	0.04	No	17	0.004359	0.005342	5.882	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-42	0.0122	0.0091	0.04	No	18	0.0113	0.003989	5.556	None	No	0.01	NP (normality)
<b>Lithium (mg/L)</b>	<b>DGWC-47</b>	<b>0.07135</b>	<b>0.05601</b>	<b>0.04</b>	<b>Yes</b>	<b>18</b>	<b>0.06368</b>	<b>0.01267</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Lithium (mg/L)</b>	<b>DGWC-48</b>	<b>0.1232</b>	<b>0.104</b>	<b>0.04</b>	<b>Yes</b>	<b>18</b>	<b>0.1136</b>	<b>0.01589</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Lithium (mg/L)	DGWC-5	0.0079	0.0046	0.04	No	17	0.007112	0.004931	5.882	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-8	0.0066	0.0039	0.04	No	17	0.006188	0.005007	5.882	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-9	0.02864	0.02485	0.04	No	18	0.02674	0.003134	5.556	None	No	0.01	Param.
Mercury (mg/L)	B-100	0.0002	0.00011	0.002	No	6	0.000185	0.00003674	83.33	None	No	0.0155	NP (NDs)
Mercury (mg/L)	B-101D	0.00029	0.00014	0.002	No	6	0.000205	0.00004806	66.67	None	No	0.0155	NP (NDs)
Mercury (mg/L)	B-104D	0.0002	0.000079	0.002	No	7	0.0001827	0.00004573	85.71	None	No	0.008	NP (NDs)
Mercury (mg/L)	B-107D	0.0002	0.00016	0.002	No	6	0.0001933	0.00001633	83.33	None	No	0.0155	NP (NDs)
Mercury (mg/L)	B-108D	0.0002	0.00014	0.002	No	6	0.00019	0.00002449	83.33	None	No	0.0155	NP (NDs)
Mercury (mg/L)	B-111D	0.0002	0.000094	0.002	No	7	0.0001849	0.00004006	85.71	None	No	0.008	NP (NDs)
Mercury (mg/L)	B-56	0.00034	0.00016	0.002	No	7	0.0002143	0.0000574	71.43	None	No	0.008	NP (NDs)
Mercury (mg/L)	B-66	0.00029	0.0002	0.002	No	7	0.0002129	0.00003402	85.71	None	No	0.008	NP (NDs)
Mercury (mg/L)	B-82	0.0002	0.00011	0.002	No	8	0.0001887	0.00003182	87.5	None	No	0.004	NP (NDs)
Mercury (mg/L)	B-88	0.0002	0.0001	0.002	No	7	0.0001729	0.00004645	71.43	None	No	0.008	NP (NDs)
Mercury (mg/L)	B-92	0.0001781	0.0001353	0.002	No	4	0.0001725	0.00002062	25	Kaplan-Meier	No	0.01	Param.
Mercury (mg/L)	B-93	0.0002359	0.0001013	0.002	No	7	0.0001869	0.00005552	28.57	Kaplan-Meier	No	0.01	Param.
Mercury (mg/L)	DGWC-10	0.0002	0.00009	0.002	No	17	0.0001718	0.00005248	76.47	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-11	0.0002	0.00008	0.002	No	17	0.0001759	0.00005397	82.35	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-12	0.0002	0.00008	0.002	No	19	0.0001614	0.00006139	68.42	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-13	0.0002	0.00009	0.002	No	17	0.0001859	0.00004001	88.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-14	0.0002	0.00008	0.002	No	18	0.0001772	0.00005267	83.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-15	0.0002	0.00006	0.002	No	18	0.0001927	0.000033	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-17	0.0002	0.000082	0.002	No	18	0.000147	0.00006086	50	None	No	0.01	NP (normality)
Mercury (mg/L)	DGWC-19	0.0002	0.00013	0.002	No	18	0.0001728	0.00005518	77.78	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-2	0.00064	0.000083	0.002	No	18	0.0002041	0.0001184	77.78	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-20	0.0002	0.00009	0.002	No	18	0.0001806	0.00004478	83.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-21	0.0002	0.00008	0.002	No	18	0.000165	0.00005963	72.22	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-22	0.0002	0.00011	0.002	No	18	0.0001697	0.00005354	72.22	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-23	0.0002	0.00014	0.002	No	18	0.0001878	0.00005231	38.89	None	No	0.01	NP (normality)
Mercury (mg/L)	DGWC-4	0.00022	0.00013	0.002	No	17	0.000206	0.0001076	70.59	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-42	0.0002	0.00004	0.002	No	18	0.0001911	0.00003771	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-48	0.0002	0.00006	0.002	No	18	0.0001922	0.000033	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-5	0.0002401	0.0001229	0.002	No	17	0.0001914	0.0001144	11.76	None	x^(1/3)	0.01	Param.
Mercury (mg/L)	DGWC-8	0.0002	0.00009	0.002	No	17	0.0001583	0.00006028	64.71	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-9	0.0002	0.00014	0.002	No	18	0.0001851	0.00008025	38.89	None	No	0.01	NP (normality)
Molybdenum (mg/L)	B-100	0.19	0.01	0.1	No	7	0.03571	0.06803	85.71	None	No	0.008	NP (NDs)
Molybdenum (mg/L)	B-101D	0.01	0.0022	0.1	No	6	0.0087	0.003184	83.33	None	No	0.0155	NP (NDs)
Molybdenum (mg/L)	B-102D	0.01	0.0015	0.1	No	7	0.008786	0.003213	85.71	None	No	0.008	NP (NDs)
Molybdenum (mg/L)	B-104D	0.01	0.00083	0.1	No	7	0.007433	0.004386	71.43	None	No	0.008	NP (NDs)
Molybdenum (mg/L)	B-109D	0.001963	0.001018	0.1	No	6	0.00145	0.0003886	0	None	ln(x)	0.01	Param.
Molybdenum (mg/L)	B-111D	0.013	0.0052	0.1	No	7	0.0072	0.002719	0	None	No	0.008	NP (normality)
Molybdenum (mg/L)	B-120D	0.01	0.00089	0.1	No	5	0.008178	0.004074	80	None	No	0.031	NP (NDs)
Molybdenum (mg/L)	B-66	0.01	0.0015	0.1	No	7	0.007614	0.004075	71.43	None	No	0.008	NP (NDs)
Molybdenum (mg/L)	B-88	0.01	0.0012	0.1	No	7	0.007486	0.004294	71.43	None	No	0.008	NP (NDs)
Molybdenum (mg/L)	B-98	0.002173	0.0006717	0.1	No	4	0.003435	0.004386	25	Kaplan-Meier	ln(x)	0.01	Param.
Molybdenum (mg/L)	DGWC-13	0.02147	0.01153	0.1	No	17	0.01775	0.009353	0	None	ln(x)	0.01	Param.
Molybdenum (mg/L)	DGWC-2	0.01	0.002	0.1	No	18	0.0046	0.003948	33.33	None	No	0.01	NP (normality)
Molybdenum (mg/L)	DGWC-23	0.01062	0.007016	0.1	No	18	0.008817	0.002976	0	None	No	0.01	Param.
Molybdenum (mg/L)	DGWC-4	0.006226	0.004456	0.1	No	17	0.005341	0.001412	5.882	None	No	0.01	Param.
Selenium (mg/L)	B-100	0.005	0.0019	0.05	No	7	0.004557	0.001172	85.71	None	No	0.008	NP (NDs)

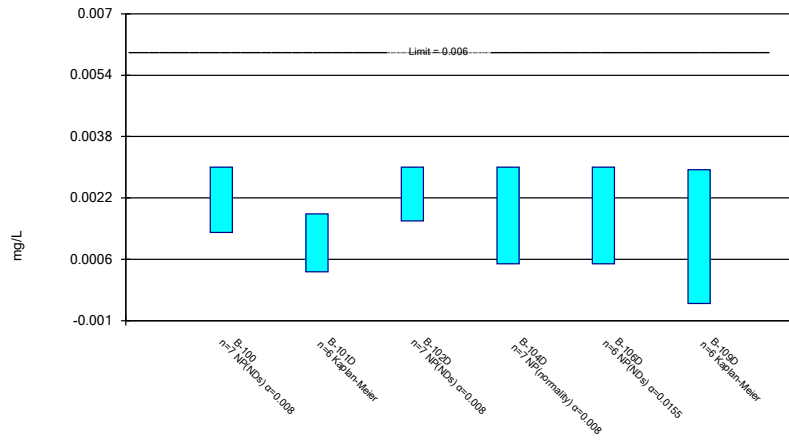
# Confidence Intervals - All Results

Plant McDonough    Client: Southern Company    Data: McDonough AP    Printed 5/4/2023, 3:01 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Selenium (mg/L)	B-101D	0.005	0.0031	0.05	No	6	0.004683	0.0007757	83.33	None	No	0.0155	NP (NDs)
Selenium (mg/L)	B-104D	0.005	0.0016	0.05	No	7	0.003786	0.001586	57.14	None	No	0.008	NP (NDs)
Selenium (mg/L)	B-108D	0.005	0.0016	0.05	No	6	0.004433	0.001388	83.33	None	No	0.0155	NP (NDs)
Selenium (mg/L)	B-111D	0.005	0.0022	0.05	No	7	0.0046	0.001058	85.71	None	No	0.008	NP (NDs)
Selenium (mg/L)	B-120D	0.005315	0.0005655	0.05	No	5	0.00294	0.001417	0	None	No	0.01	Param.
Selenium (mg/L)	B-56	0.02	0.006852	0.05	No	7	0.01294	0.007336	0	None	ln(x)	0.01	Param.
Selenium (mg/L)	B-77	0.005	0.0017	0.05	No	9	0.004633	0.0011	88.89	None	No	0.002	NP (NDs)
Selenium (mg/L)	B-82	0.005	0.0016	0.05	No	8	0.003525	0.001595	50	None	No	0.004	NP (normality)
Selenium (mg/L)	B-83	0.02699	0.01381	0.05	No	8	0.0204	0.006222	0	None	No	0.01	Param.
Selenium (mg/L)	B-88	0.003212	0.001731	0.05	No	7	0.002471	0.0006237	14.29	None	No	0.01	Param.
Selenium (mg/L)	B-92	0.01552	0.00007858	0.05	No	4	0.0078	0.003401	0	None	No	0.01	Param.
Selenium (mg/L)	B-93	0.02586	0.005315	0.05	No	7	0.01483	0.01012	0	None	sqrt(x)	0.01	Param.
Selenium (mg/L)	B-97	0.004783	0.0005665	0.05	No	4	0.002675	0.0009287	0	None	No	0.01	Param.
Selenium (mg/L)	B-98	0.005	0.0033	0.05	No	4	0.004575	0.00085	75	None	No	0.0625	NP (NDs)
Selenium (mg/L)	DGWC-10	0.04715	0.02054	0.05	No	17	0.03384	0.02123	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-12	0.005	0.0019	0.05	No	19	0.0041	0.002107	63.16	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-13	0.004438	0.002327	0.05	No	17	0.004935	0.002937	17.65	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	DGWC-14	0.005	0.0016	0.05	No	18	0.003967	0.002244	61.11	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-15	0.01	0.0018	0.05	No	18	0.0051	0.001436	94.44	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-17	0.008642	0.006345	0.05	No	18	0.007656	0.002252	11.11	None	ln(x)	0.01	Param.
Selenium (mg/L)	DGWC-19	0.008095	0.005216	0.05	No	18	0.006656	0.002379	11.11	None	No	0.01	Param.
Selenium (mg/L)	DGWC-2	0.01	0.0031	0.05	No	18	0.006344	0.003243	38.89	None	No	0.01	NP (normality)
Selenium (mg/L)	DGWC-20	0.06489	0.03724	0.05	No	18	0.05107	0.02285	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-22	0.005	0.0017	0.05	No	18	0.004817	0.0007778	94.44	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-4	0.005	0.0014	0.05	No	17	0.004788	0.0008731	94.12	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-47	0.01027	0.003878	0.05	No	18	0.007678	0.005878	11.11	None	sqrt(x)	0.01	Param.
Selenium (mg/L)	DGWC-48	0.006278	0.002622	0.05	No	18	0.005511	0.003126	22.22	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	DGWC-5	0.03136	0.00872	0.05	No	17	0.02846	0.03921	5.882	None	ln(x)	0.01	Param.
Selenium (mg/L)	DGWC-8	0.0069	0.0031	0.05	No	17	0.004659	0.001939	58.82	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-9	0.1083	0.04482	0.05	No	18	0.08198	0.05719	0	None	sqrt(x)	0.01	Param.
Thallium (mg/L)	B-56	0.0003056	0.0001887	0.002	No	7	0.0002471	0.00004923	0	None	No	0.01	Param.
Thallium (mg/L)	B-82	0.001	0.000099	0.002	No	8	0.0007761	0.0004145	75	None	No	0.004	NP (NDs)
Thallium (mg/L)	B-83	0.001	0.000072	0.002	No	8	0.000884	0.0003281	87.5	None	No	0.004	NP (NDs)
Thallium (mg/L)	B-88	0.001	0.0002	0.002	No	7	0.0008857	0.0003024	85.71	None	No	0.008	NP (NDs)
Thallium (mg/L)	B-92	0.001	0.0002	0.002	No	4	0.0006025	0.000459	50	None	No	0.0625	NP (normality)
Thallium (mg/L)	DGWC-10	0.001	0.00036	0.002	No	17	0.001247	0.001798	23.53	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-12	0.001	0.000091	0.002	No	19	0.0006667	0.0004485	63.16	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-17	0.001	0.00017	0.002	No	18	0.0004983	0.0004121	38.89	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-19	0.0005563	0.0004897	0.002	No	18	0.0005211	0.00005728	5.556	None	x^2	0.01	Param.
Thallium (mg/L)	DGWC-20	0.0023	0.0006	0.002	No	18	0.002996	0.003884	27.78	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-22	0.001	0.00007	0.002	No	18	0.0007408	0.0004301	72.22	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-4	0.001	0.000073	0.002	No	17	0.0009455	0.0002248	94.12	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-42	0.001	0.00028	0.002	No	18	0.0007566	0.0004061	72.22	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-47	0.00032	0.0002	0.002	No	18	0.0002767	0.00009493	11.11	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-48	0.001	0.00009	0.002	No	18	0.0007448	0.0004235	72.22	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-5	0.001	0.0002	0.002	No	17	0.0008435	0.0003494	82.35	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-8	0.001	0.00019	0.002	No	17	0.0004488	0.0003699	29.41	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-9	0.005	0.00044	0.002	No	18	0.00253	0.002276	44.44	None	No	0.01	NP (normality)

### Parametric and Non-Parametric (NP) Confidence Interval

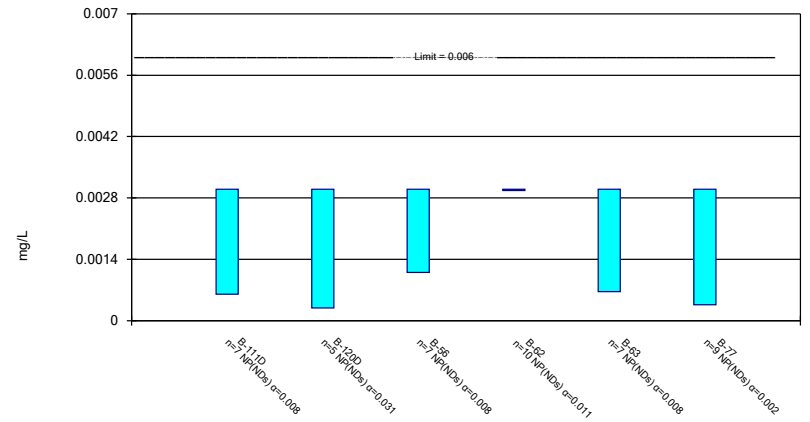
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Constituent: Antimony Analysis Run 5/4/2023 2:51 PM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

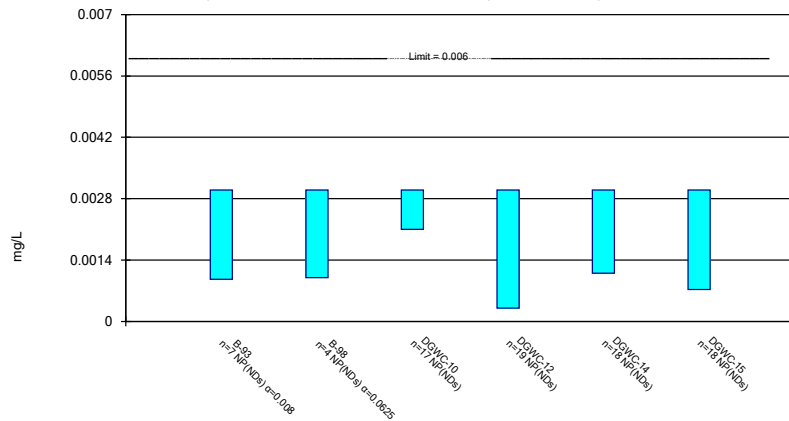
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Constituent: Antimony Analysis Run 5/4/2023 2:51 PM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

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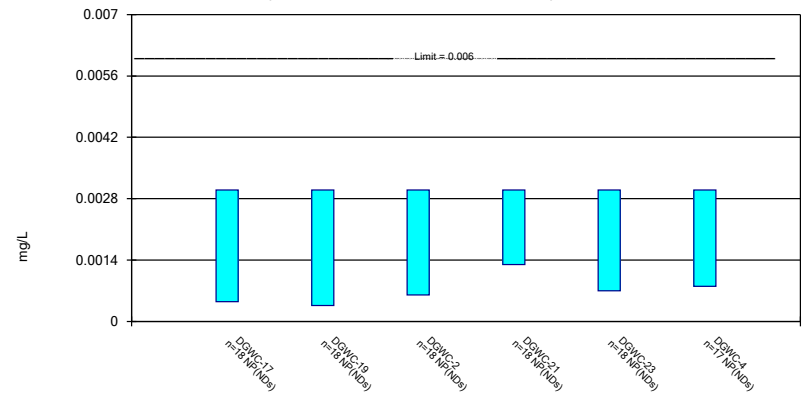
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 Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

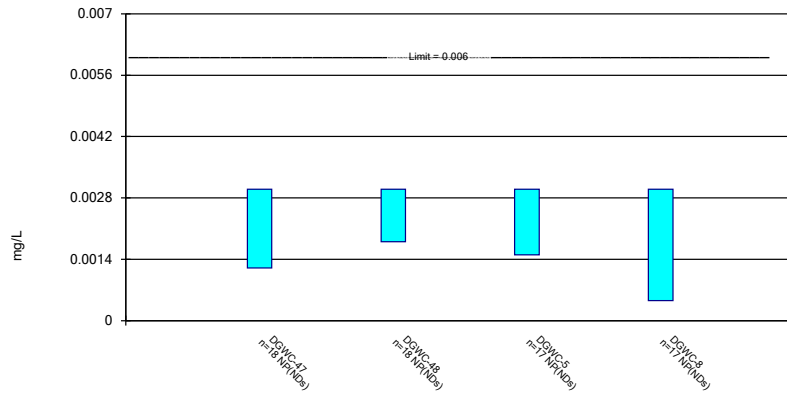
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Constituent: Antimony Analysis Run 5/4/2023 2:51 PM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

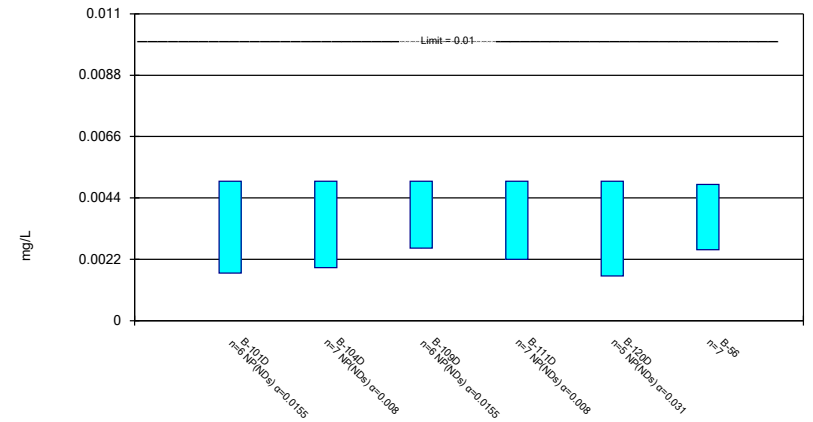
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Constituent: Antimony Analysis Run 5/4/2023 2:51 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

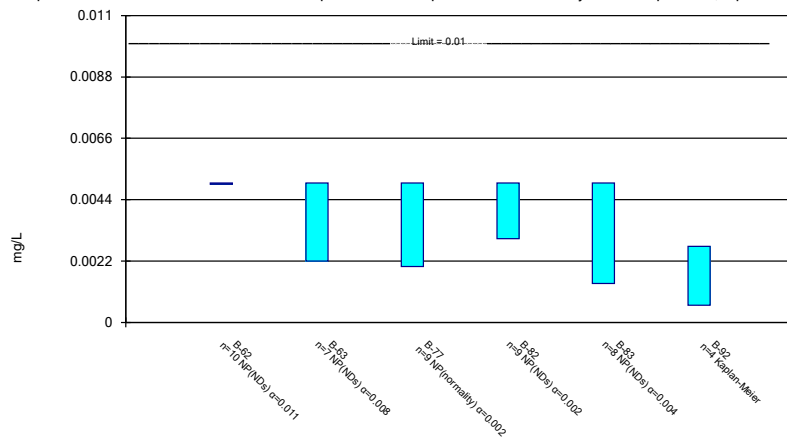
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Constituent: Arsenic Analysis Run 5/4/2023 2:51 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

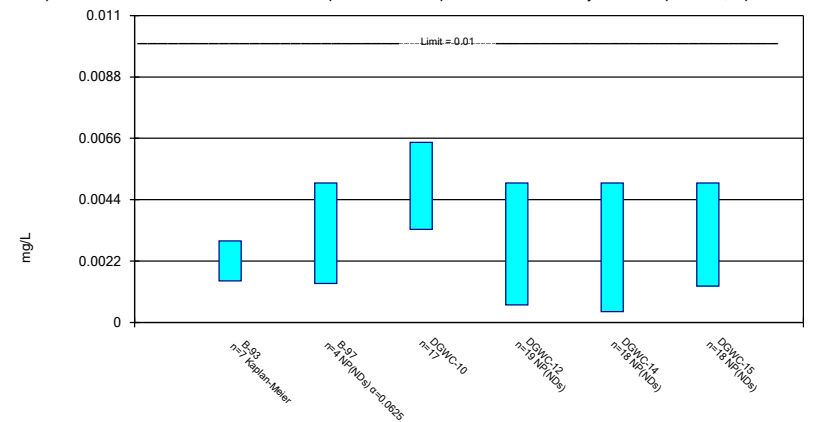
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Constituent: Arsenic Analysis Run 5/4/2023 2:51 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

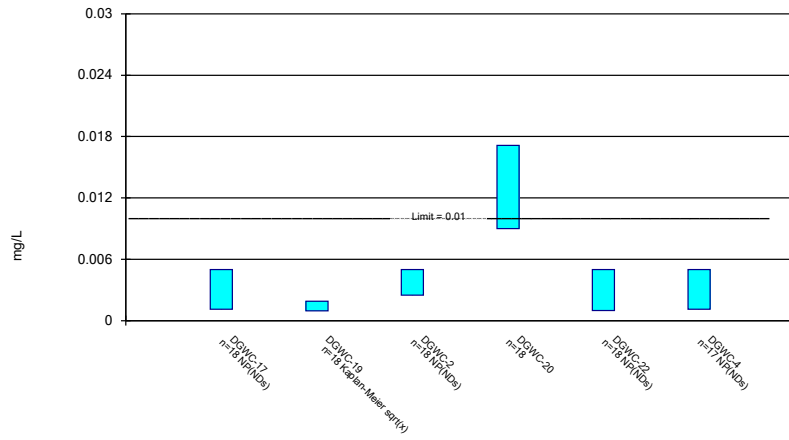
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Constituent: Arsenic Analysis Run 5/4/2023 2:51 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

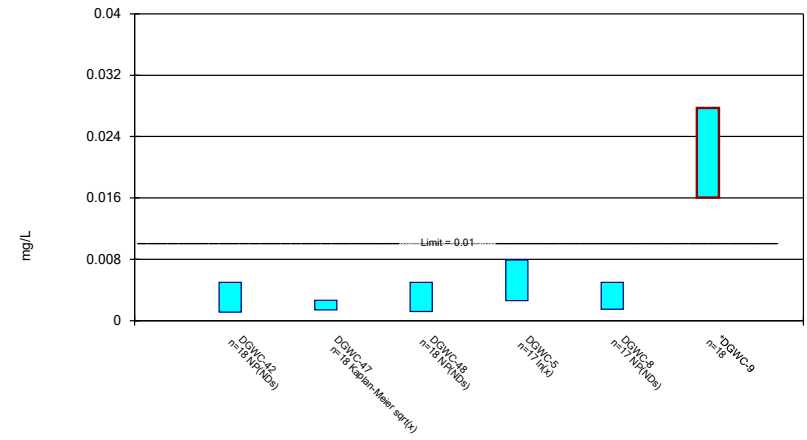
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Constituent: Arsenic Analysis Run 5/4/2023 2:51 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

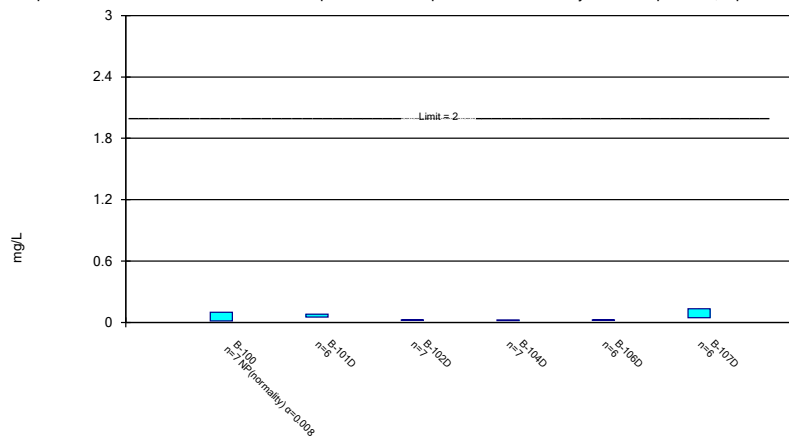
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Constituent: Arsenic Analysis Run 5/4/2023 2:51 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

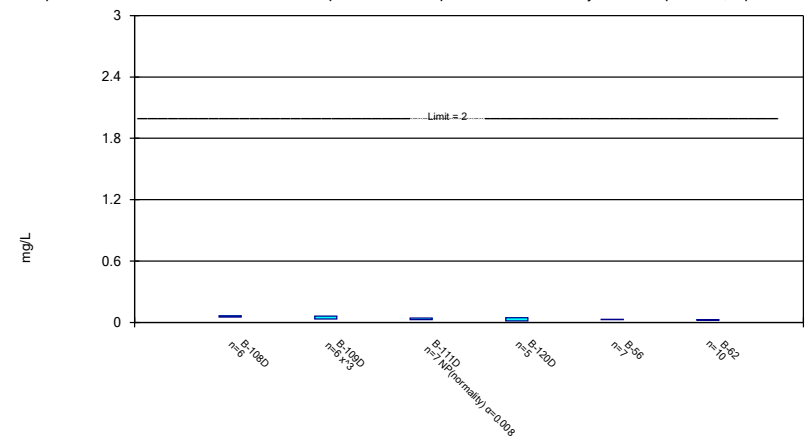
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Constituent: Barium Analysis Run 5/4/2023 2:51 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

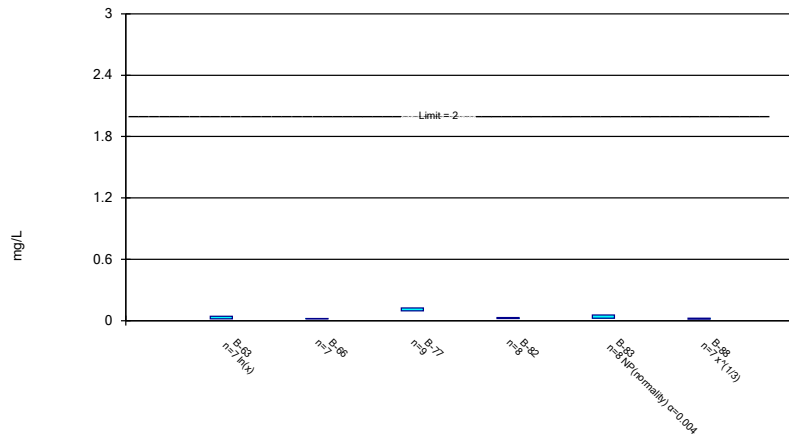
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Constituent: Barium Analysis Run 5/4/2023 2:51 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

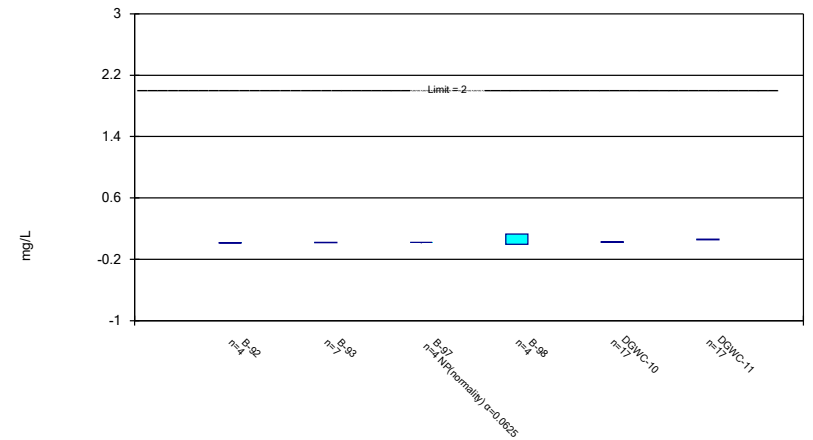
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Constituent: Barium Analysis Run 5/4/2023 2:51 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

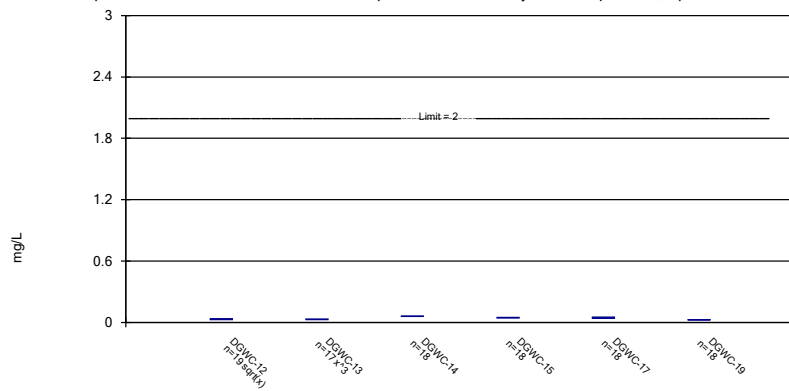
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Constituent: Barium Analysis Run 5/4/2023 2:51 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric Confidence Interval

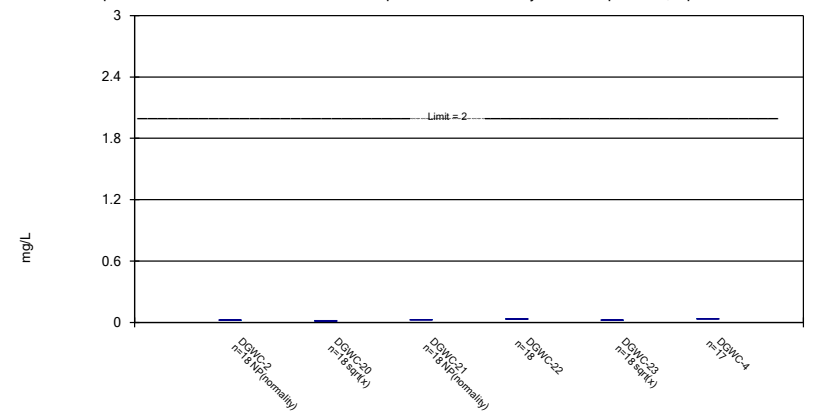
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 5/4/2023 2:51 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

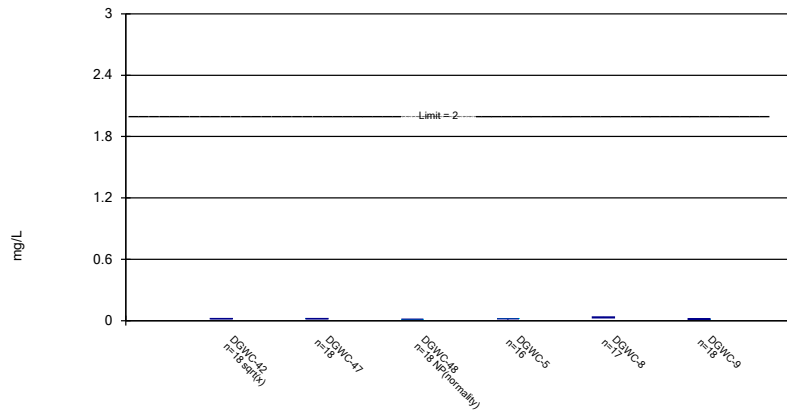
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 5/4/2023 2:51 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

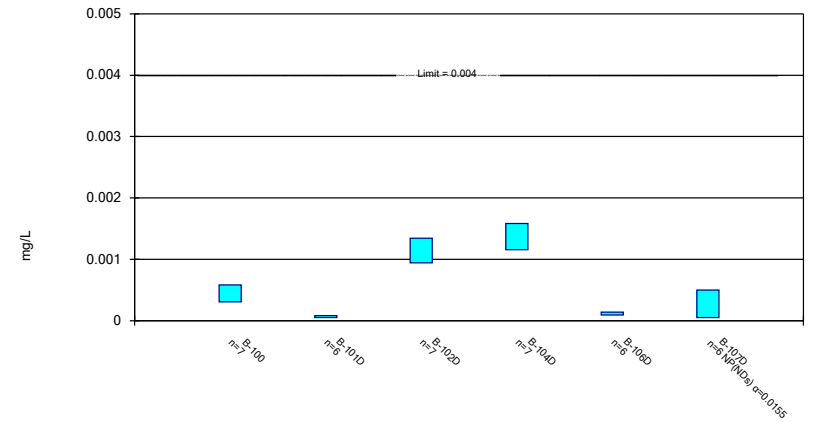
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 5/4/2023 2:52 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

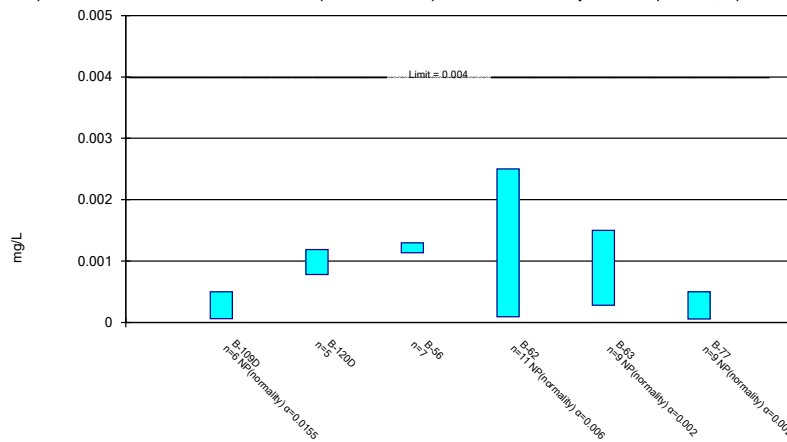
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 5/4/2023 2:52 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

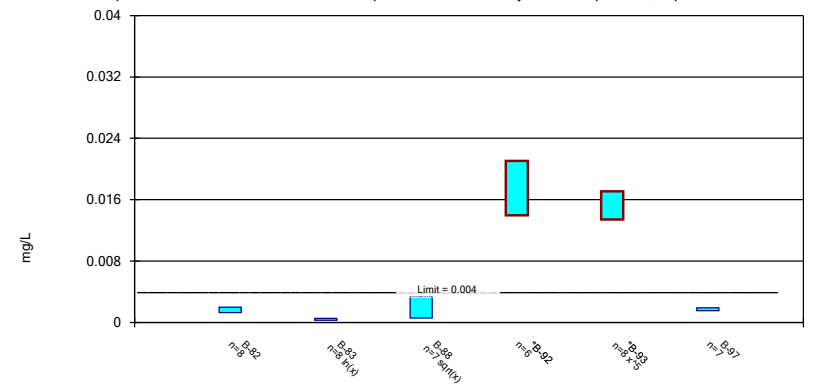
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 5/4/2023 2:52 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric Confidence Interval

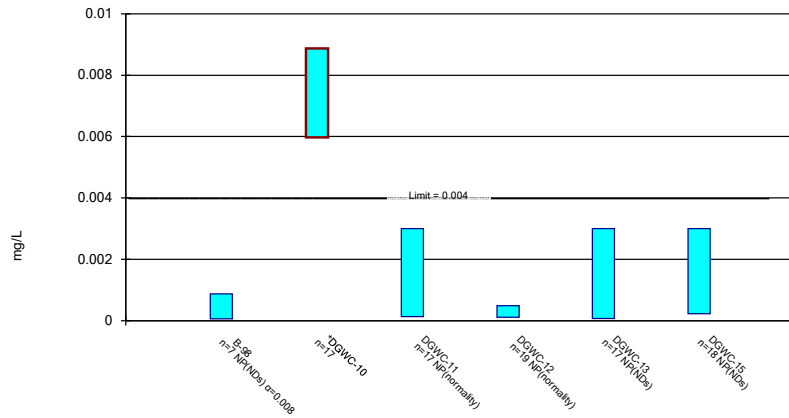
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 5/4/2023 2:52 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

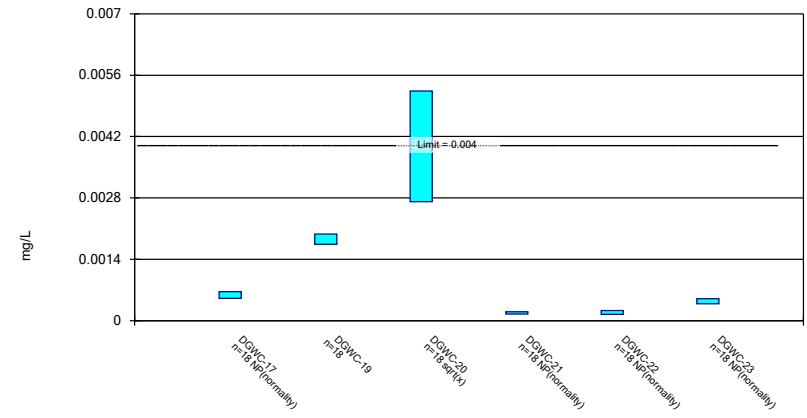
Compliance limit is exceeded.\* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 5/4/2023 2:52 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

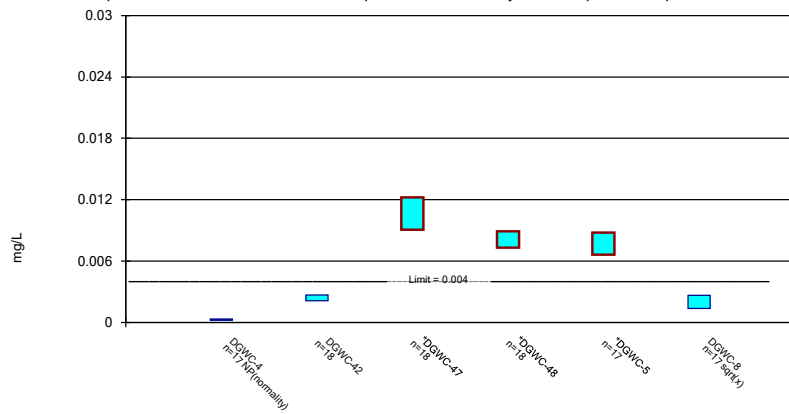
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 5/4/2023 2:52 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

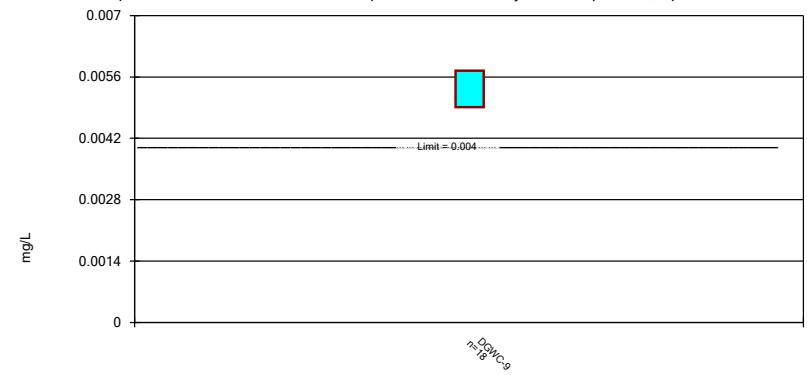
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 5/4/2023 2:52 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.

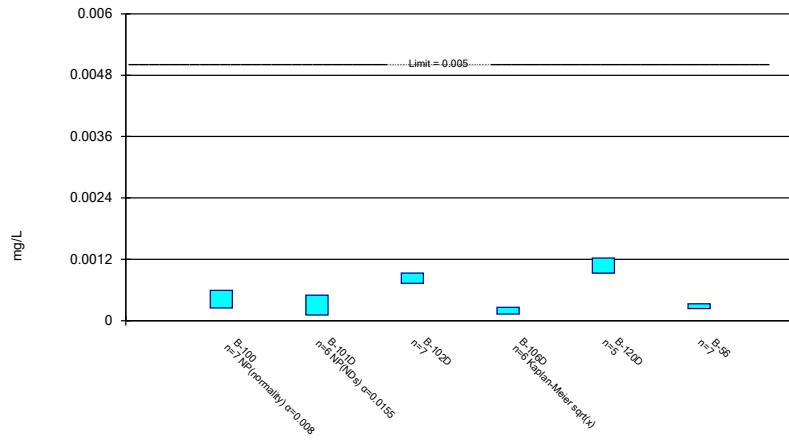


Constituent: Beryllium Analysis Run 5/4/2023 2:52 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP



### Parametric and Non-Parametric (NP) Confidence Interval

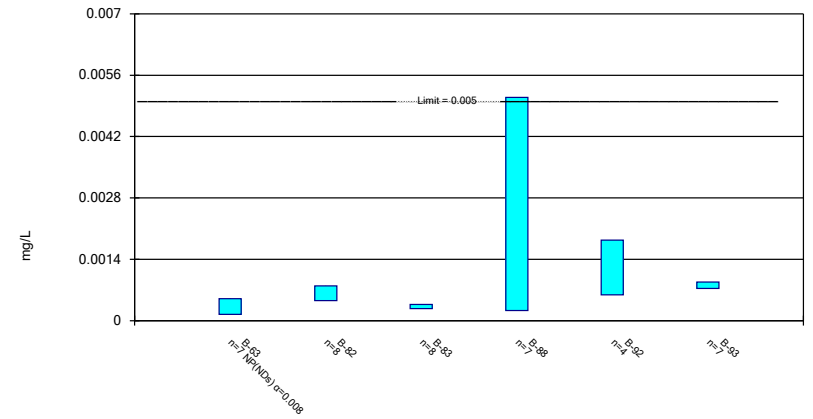
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 5/4/2023 2:52 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

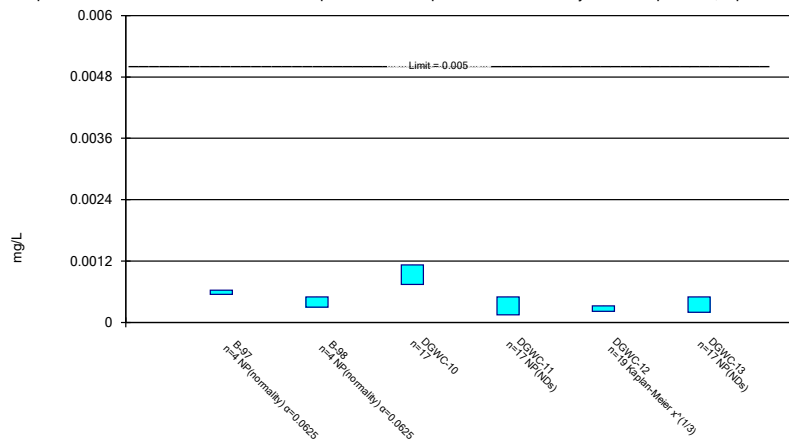
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 5/4/2023 2:52 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

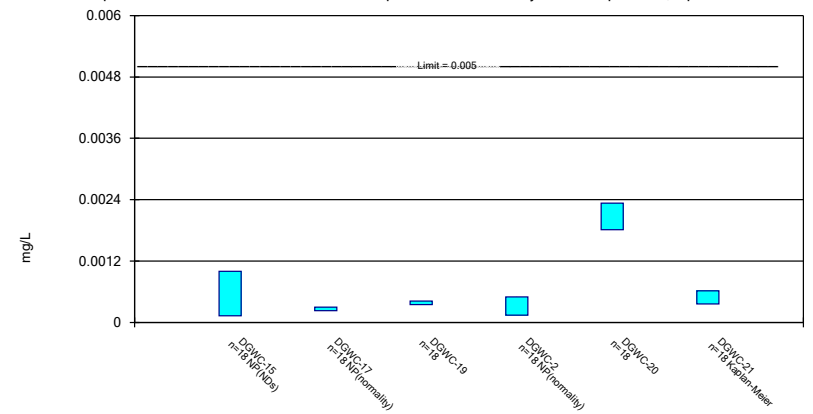
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 5/4/2023 2:52 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

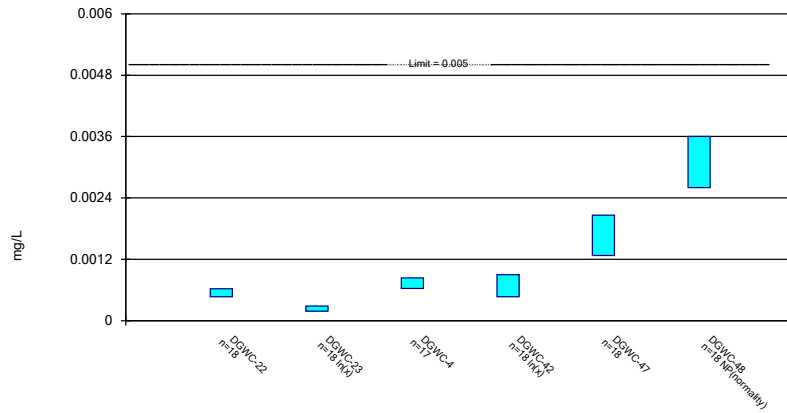
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 5/4/2023 2:52 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

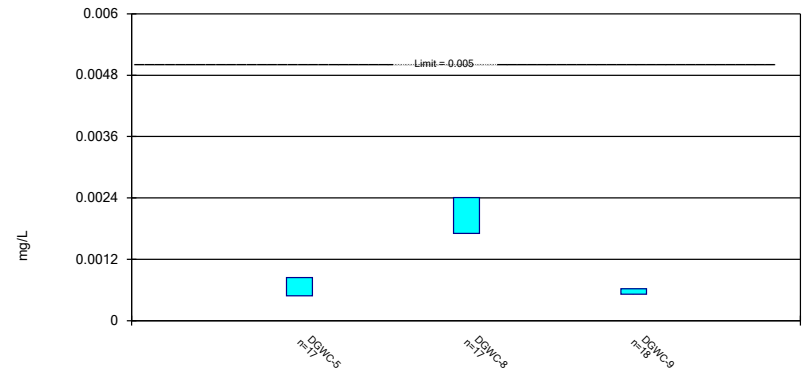
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 5/4/2023 2:52 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric Confidence Interval

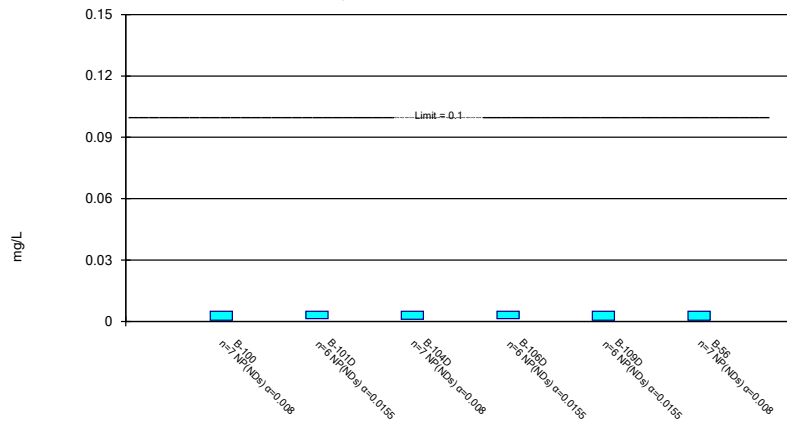
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 5/4/2023 2:52 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

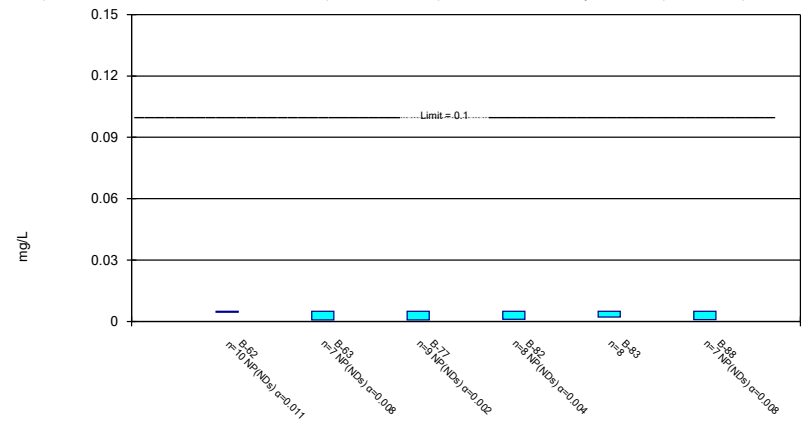
Compliance Limit is not exceeded.



Constituent: Chromium Analysis Run 5/4/2023 2:52 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

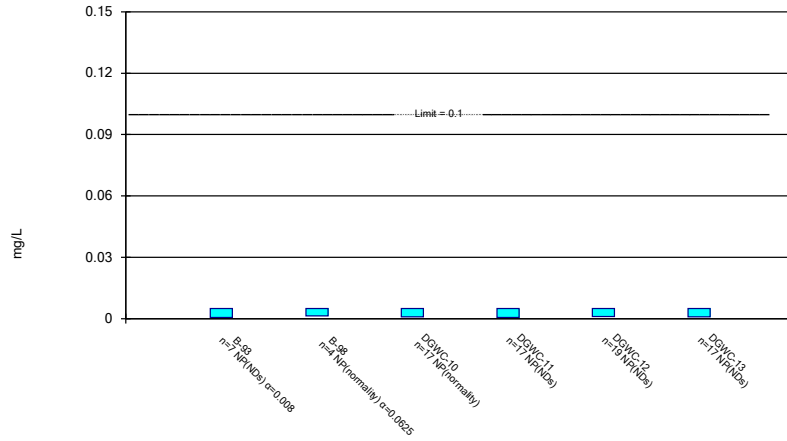
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 5/4/2023 2:52 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

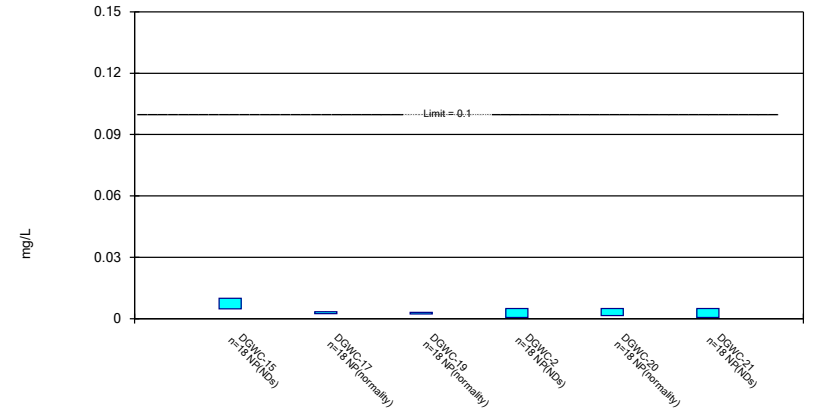
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Chromium Analysis Run 5/4/2023 2:52 PM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

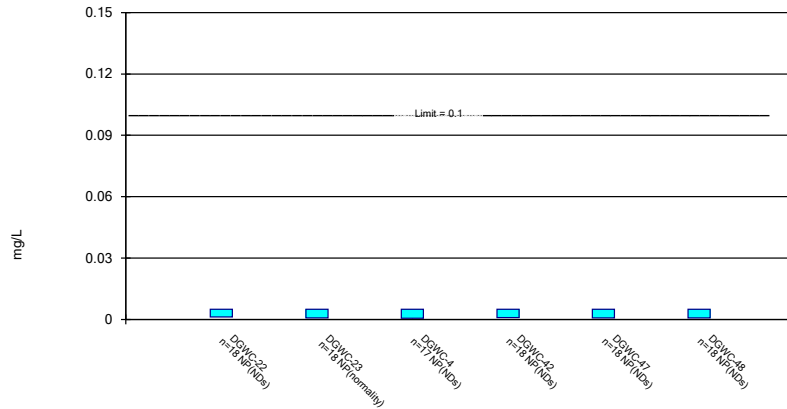
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 5/4/2023 2:52 PM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

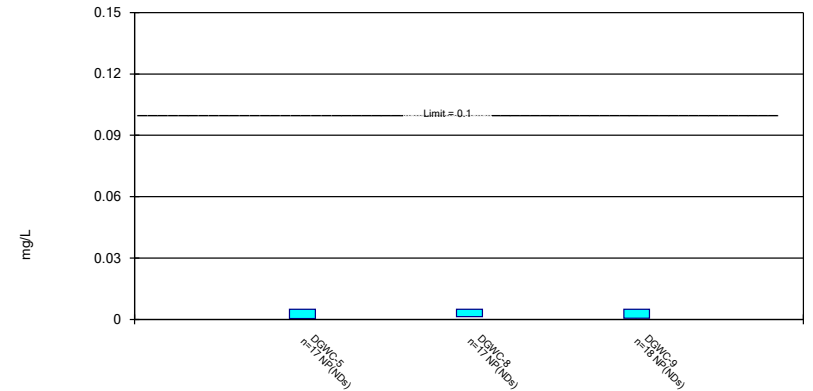
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 5/4/2023 2:52 PM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

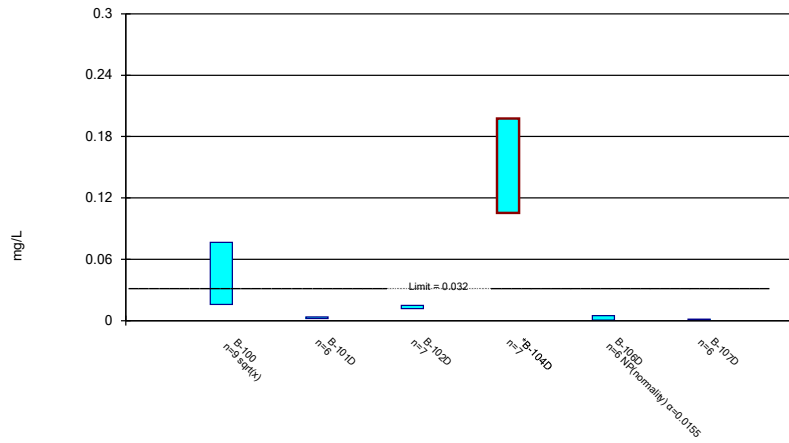
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 5/4/2023 2:52 PM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

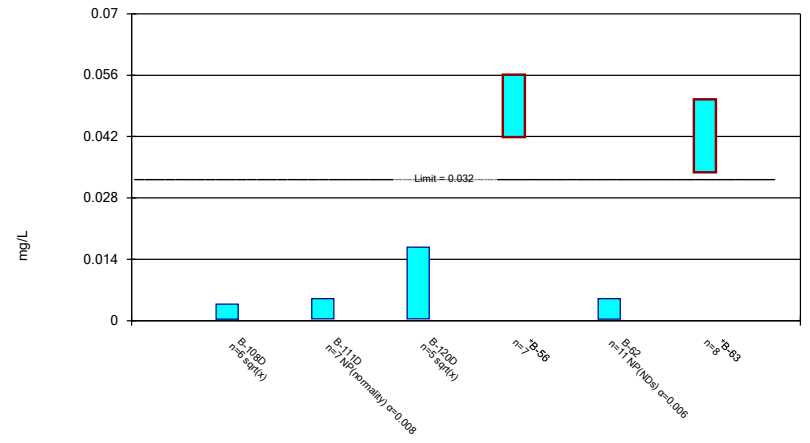
Compliance limit is exceeded.\* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 5/4/2023 2:52 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

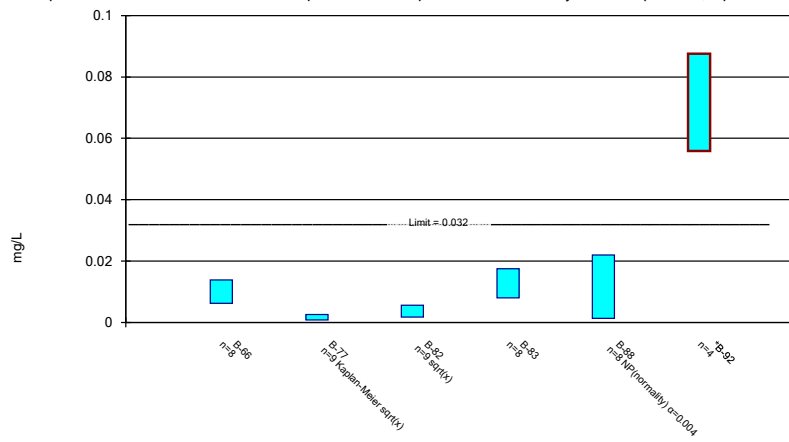
Compliance limit is exceeded.\* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 5/4/2023 2:52 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

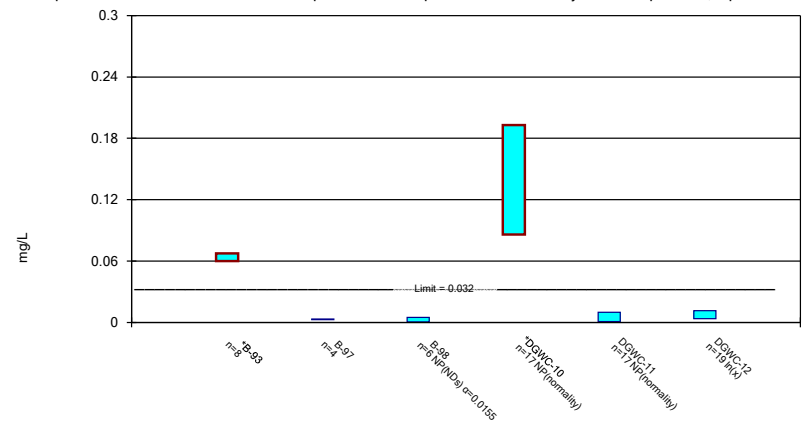
Compliance limit is exceeded.\* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 5/4/2023 2:52 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

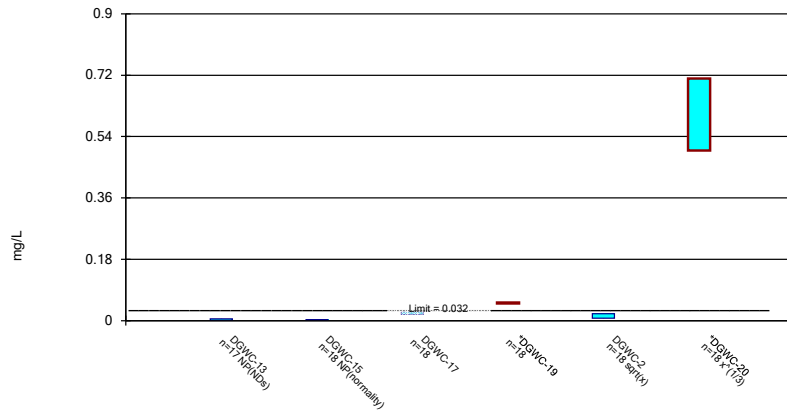
Compliance limit is exceeded.\* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 5/4/2023 2:52 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

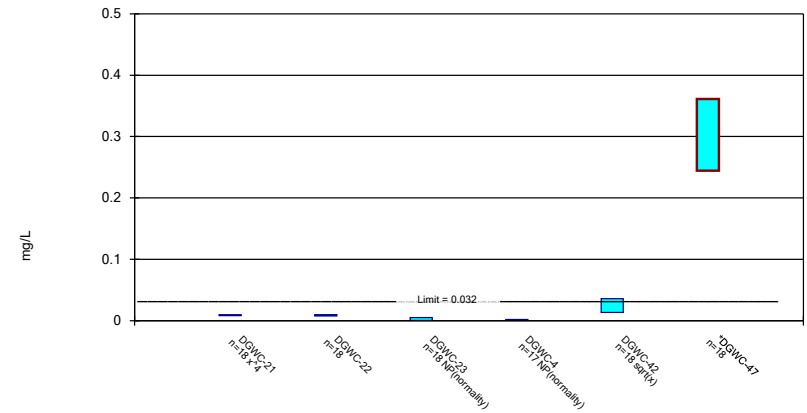
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 5/4/2023 2:52 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

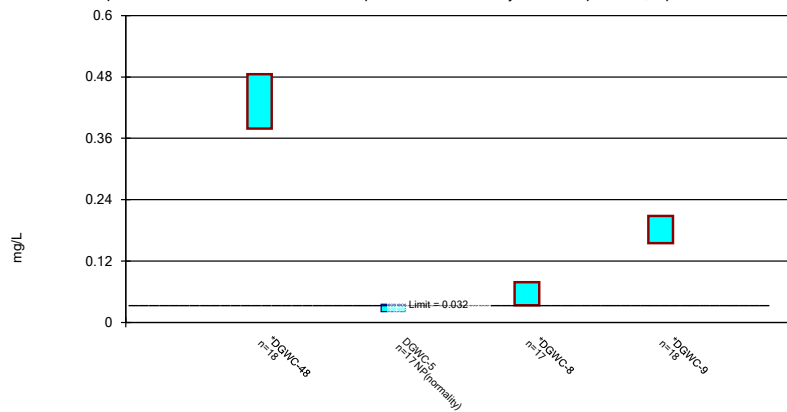
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 5/4/2023 2:52 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

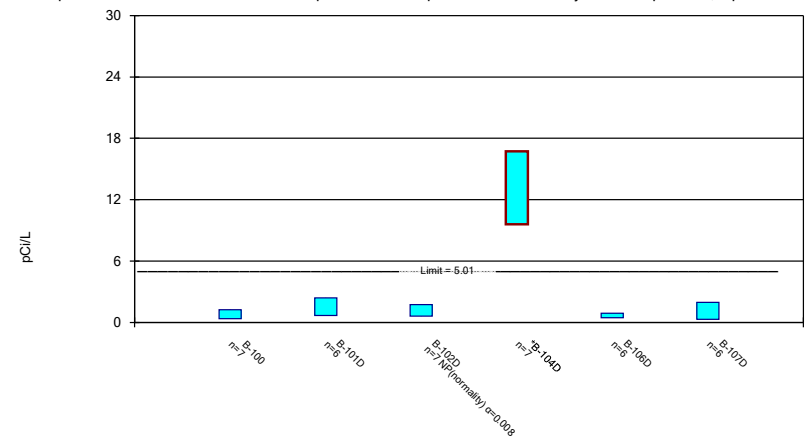
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 5/4/2023 2:52 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

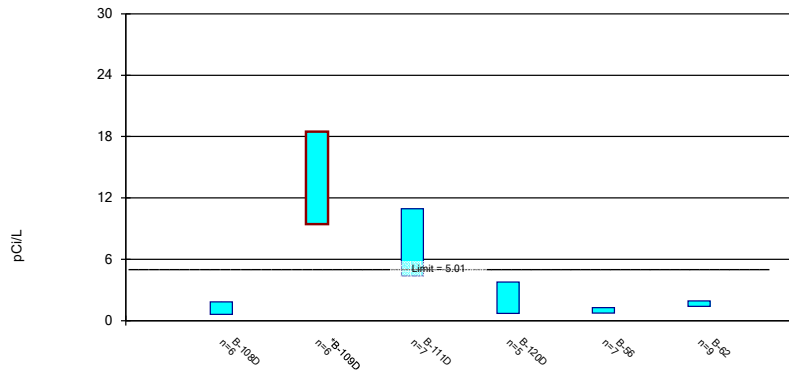
Compliance limit is exceeded.\* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 5/4/2023 2:52 PM View: AP 234 Confidence Inter  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric Confidence Interval

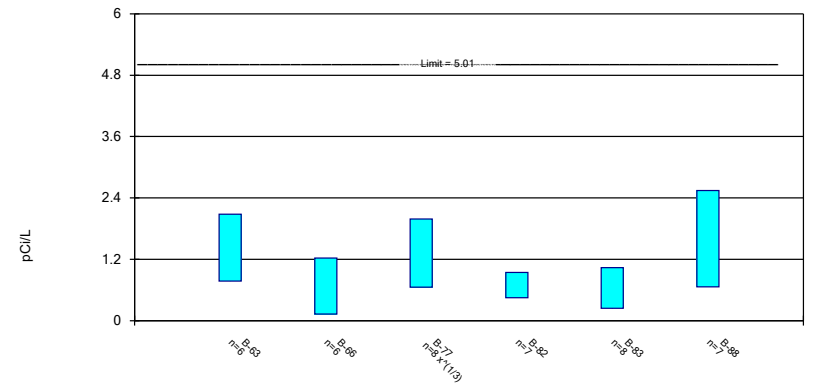
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 5/4/2023 2:52 PM View: AP 234 Confidence Inter  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric Confidence Interval

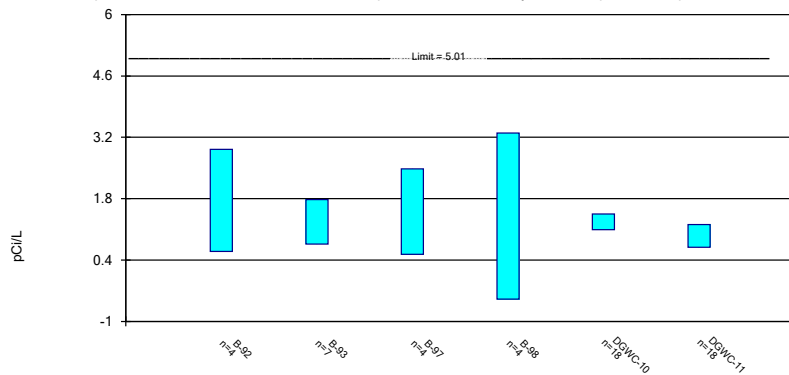
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 5/4/2023 2:52 PM View: AP 234 Confidence Inter  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric Confidence Interval

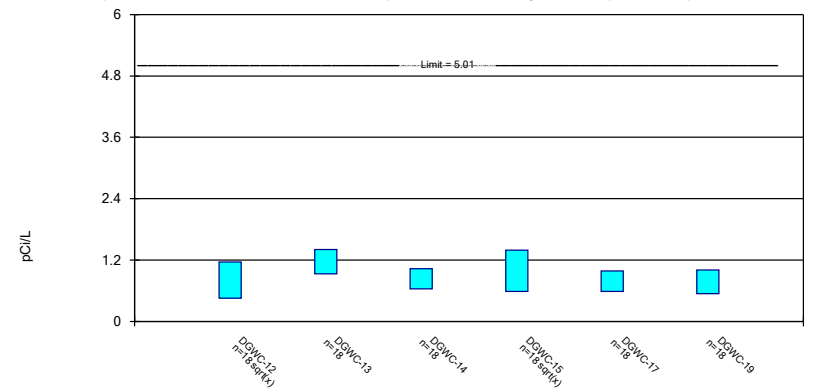
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 5/4/2023 2:52 PM View: AP 234 Confidence Inter  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric Confidence Interval

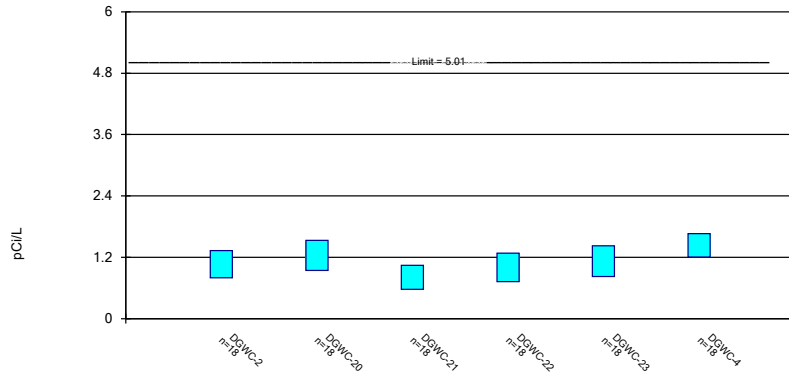
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 5/4/2023 2:52 PM View: AP 234 Confidence Inter  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric Confidence Interval

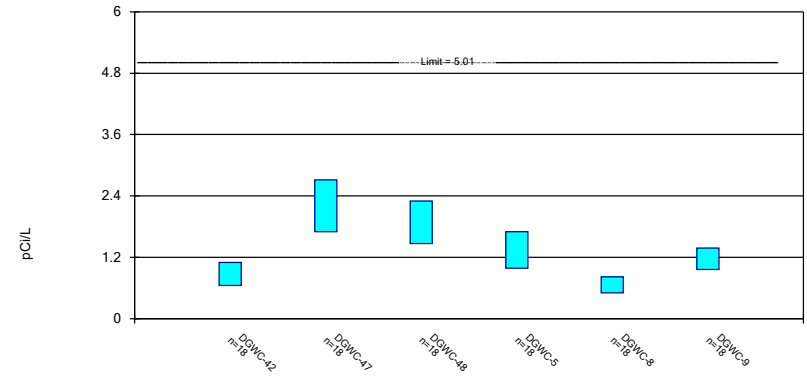
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 5/4/2023 2:52 PM View: AP 234 Confidence Inter  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric Confidence Interval

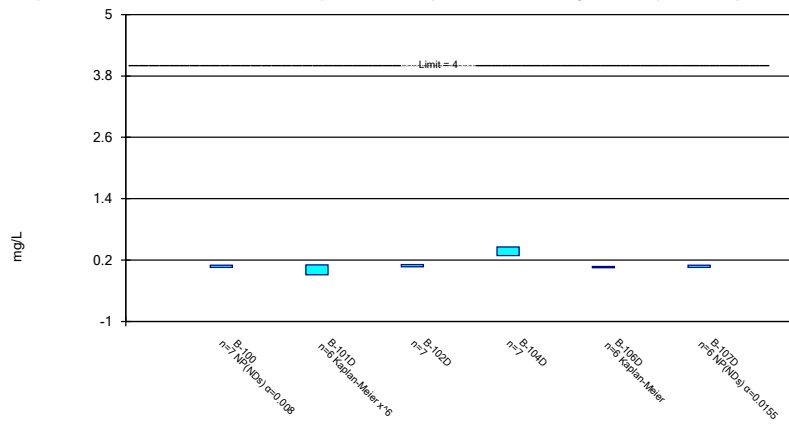
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 5/4/2023 2:52 PM View: AP 234 Confidence Inter  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

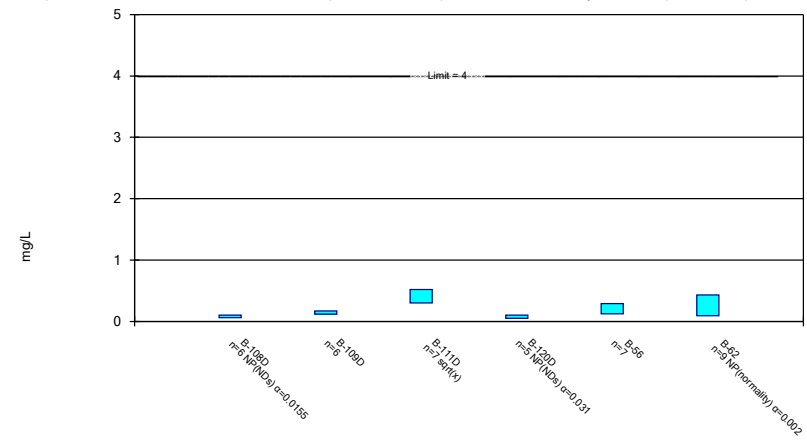
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Constituent: Fluoride Analysis Run 5/4/2023 2:52 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

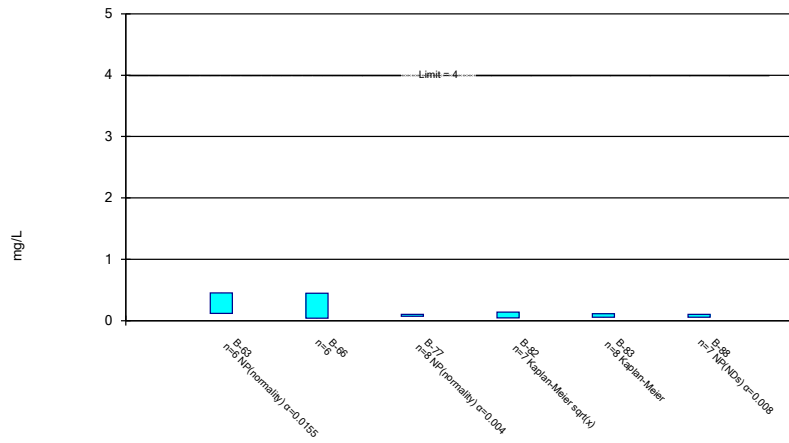
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 5/4/2023 2:52 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

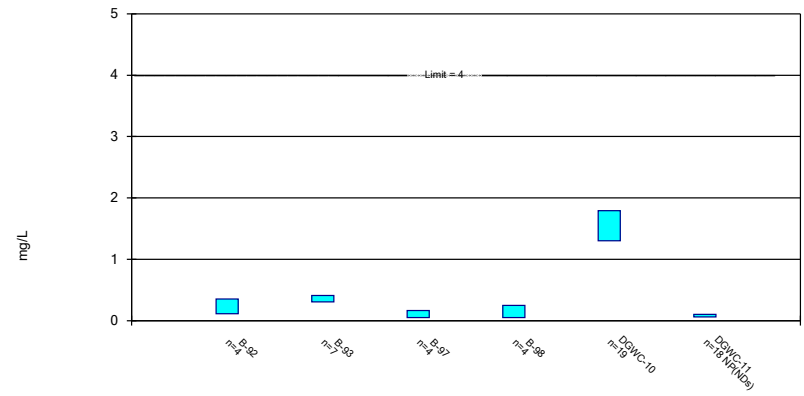
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 5/4/2023 2:52 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

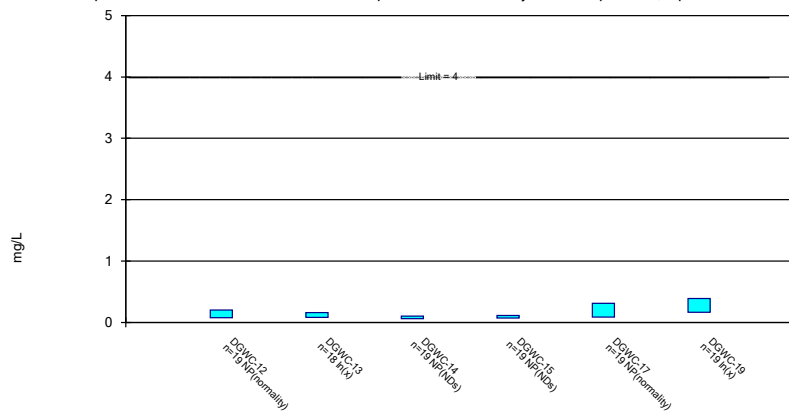
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 5/4/2023 2:52 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

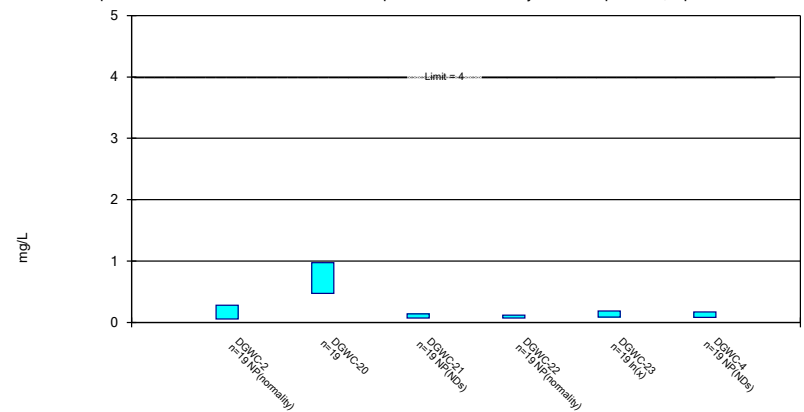
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 5/4/2023 2:52 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.

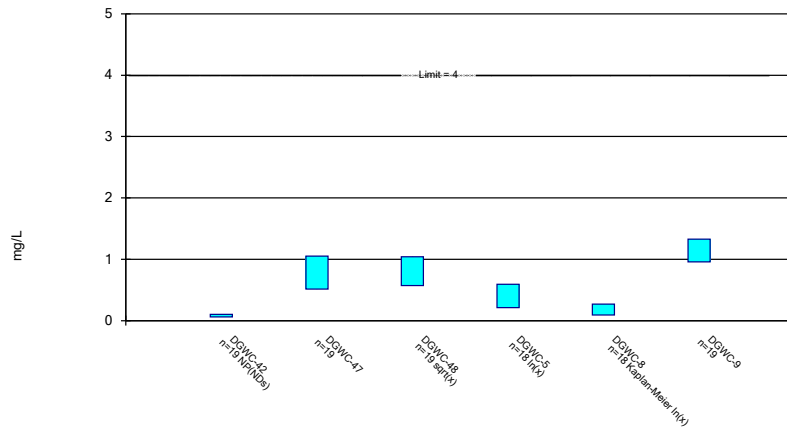


Constituent: Fluoride Analysis Run 5/4/2023 2:52 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP



### Parametric and Non-Parametric (NP) Confidence Interval

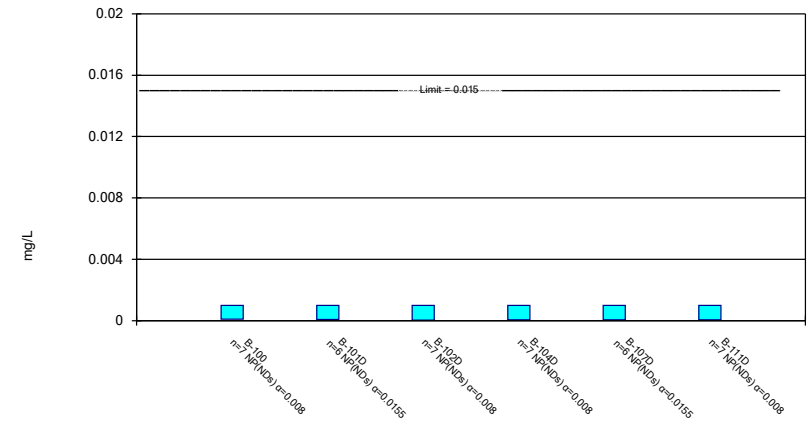
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 5/4/2023 2:52 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

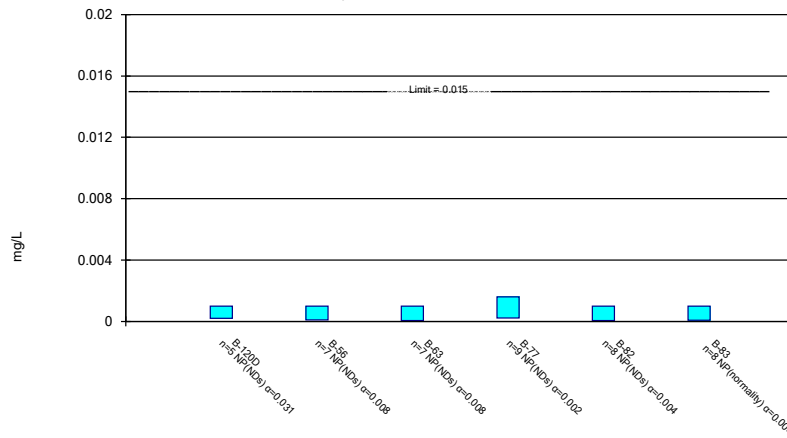
Compliance Limit is not exceeded.



Constituent: Lead Analysis Run 5/4/2023 2:52 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

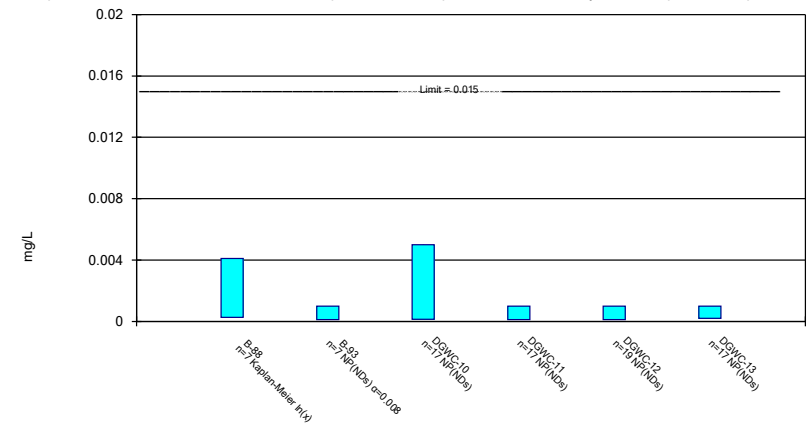
Compliance Limit is not exceeded.



Constituent: Lead Analysis Run 5/4/2023 2:52 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

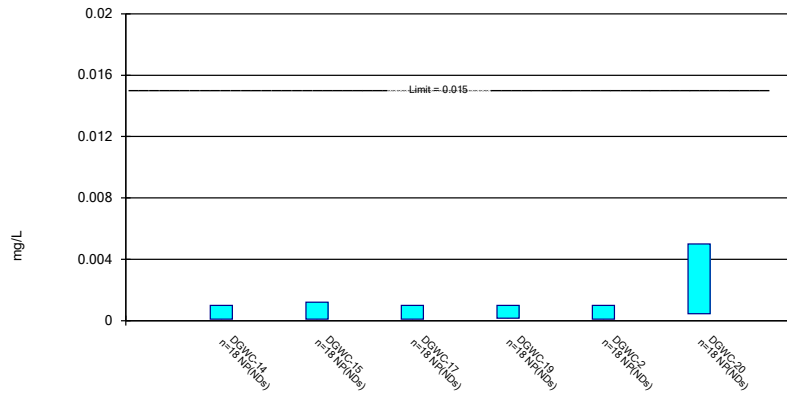
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 5/4/2023 2:52 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

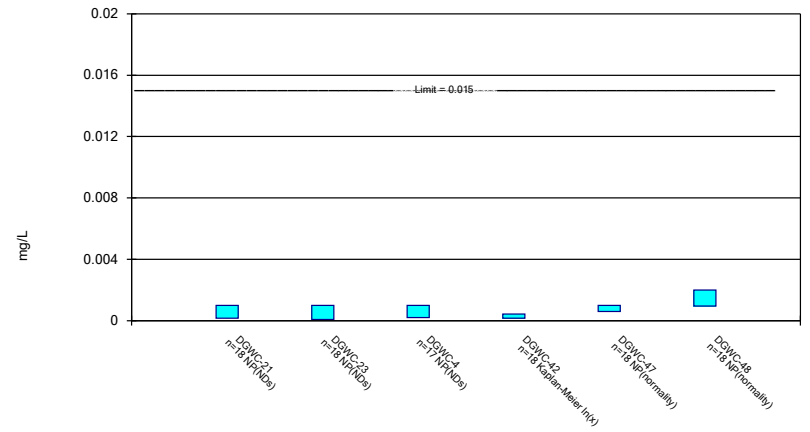
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 5/4/2023 2:52 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

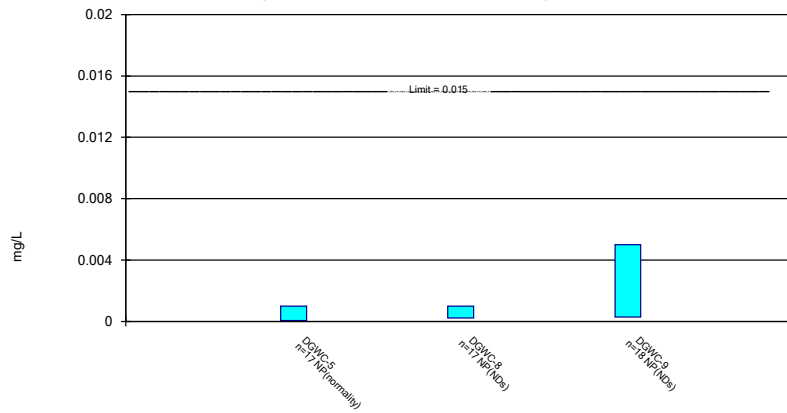
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 5/4/2023 2:52 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

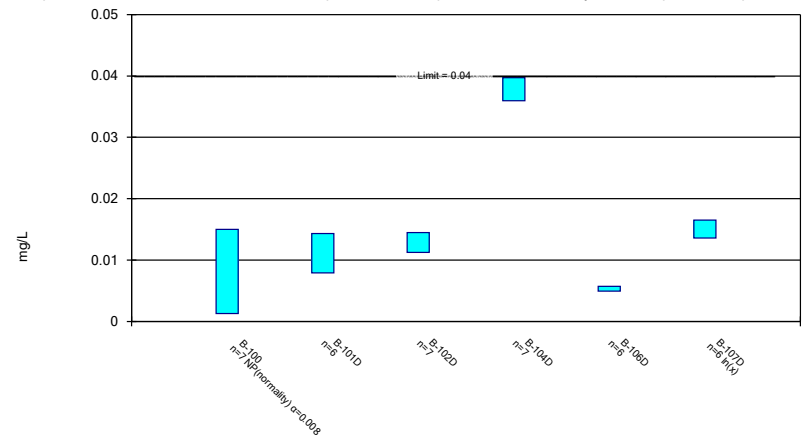
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 5/4/2023 2:52 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

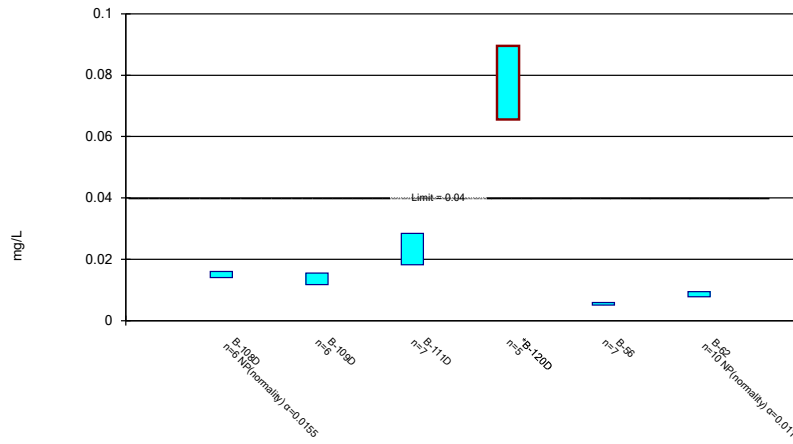
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 5/4/2023 2:52 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

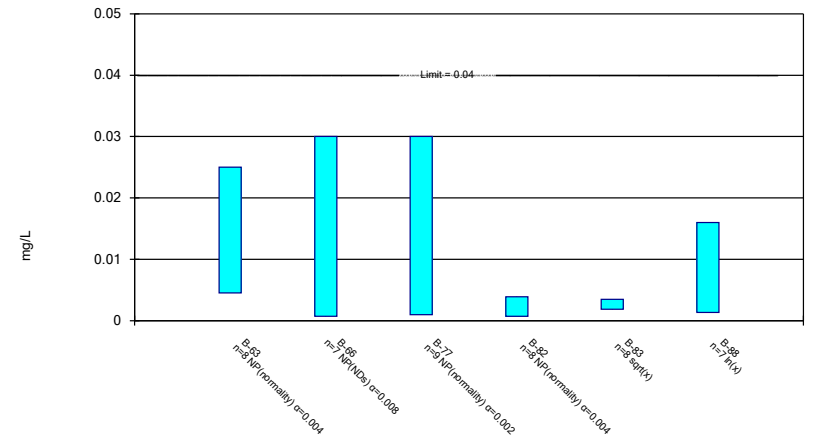
Compliance limit is exceeded.\* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 5/4/2023 2:52 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

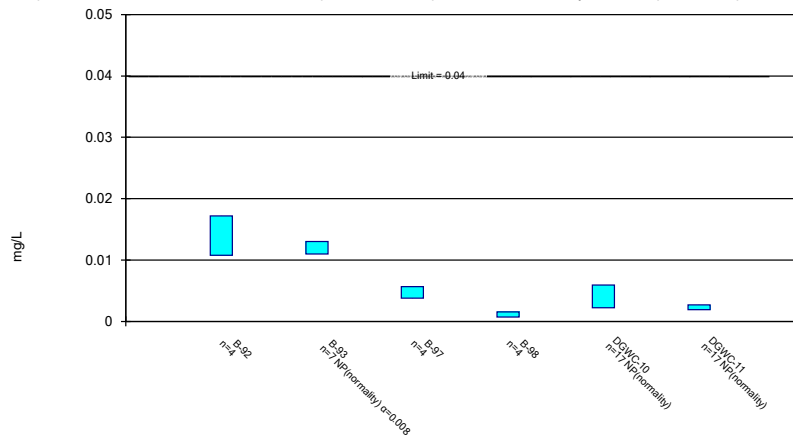
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 5/4/2023 2:52 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

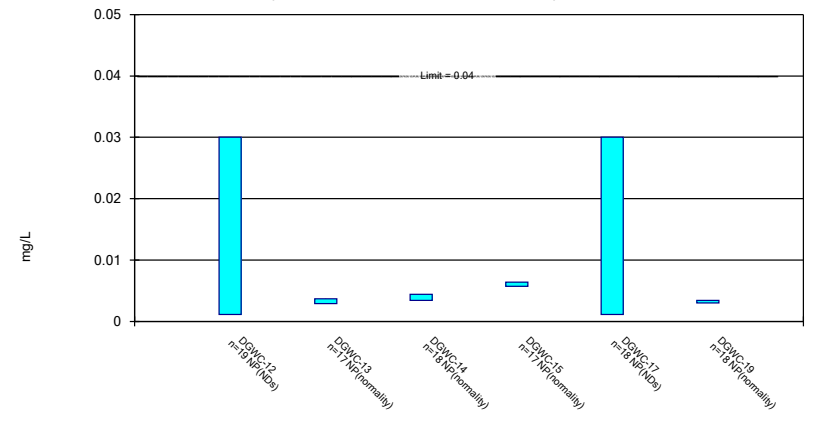
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 5/4/2023 2:53 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

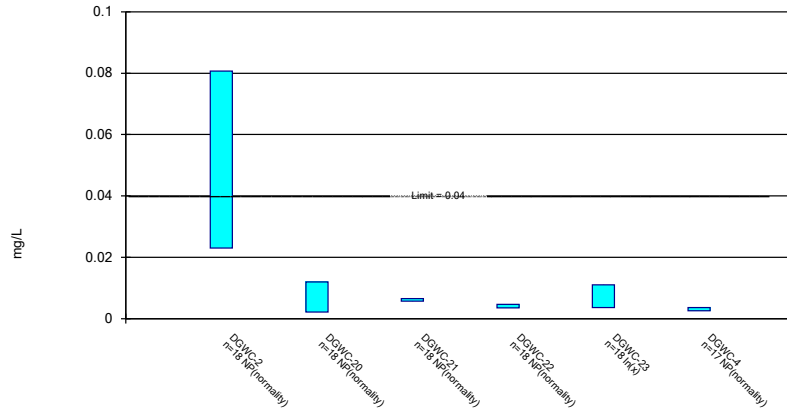
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lithium Analysis Run 5/4/2023 2:53 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

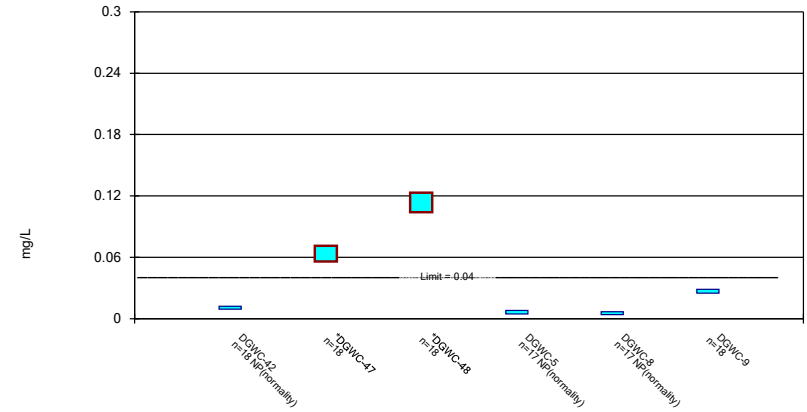
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 5/4/2023 2:53 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

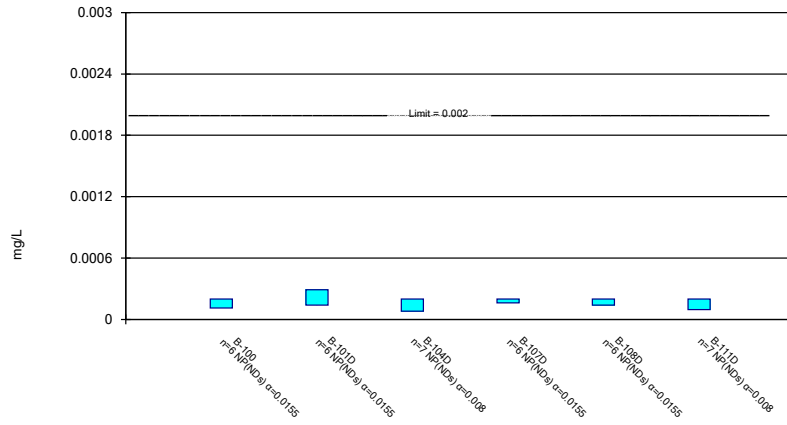
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 5/4/2023 2:53 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

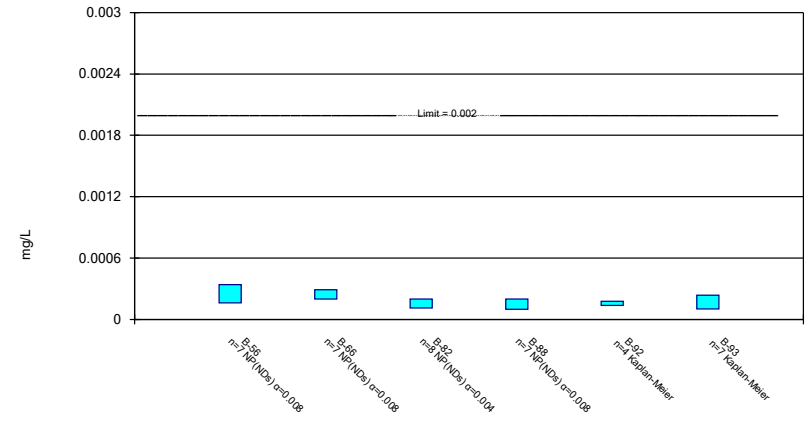
Compliance Limit is not exceeded.



Constituent: Mercury Analysis Run 5/4/2023 2:53 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

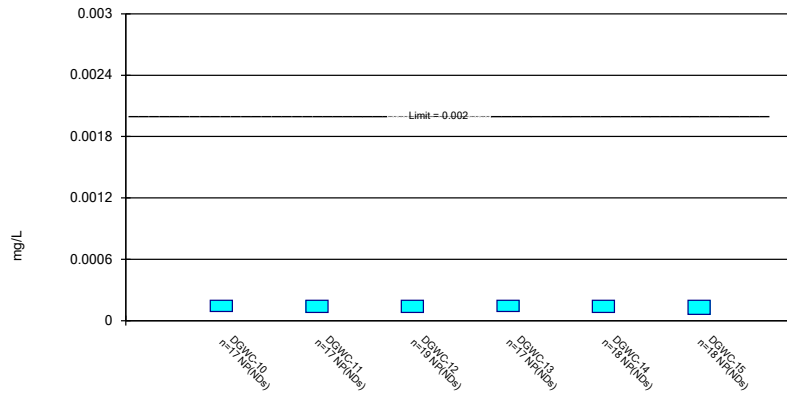
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Mercury Analysis Run 5/4/2023 2:53 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

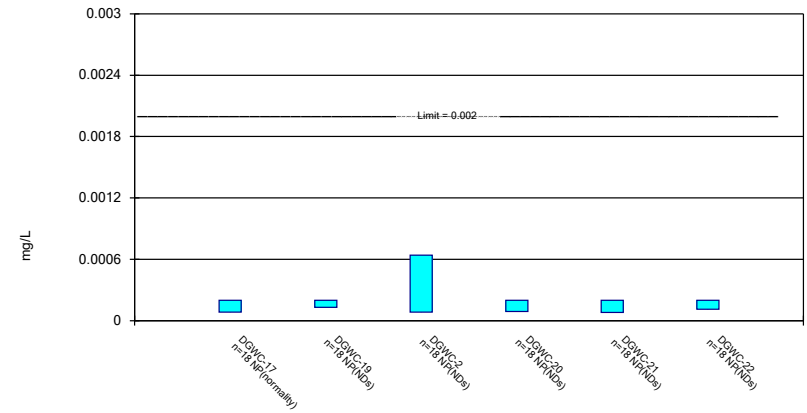
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 5/4/2023 2:53 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

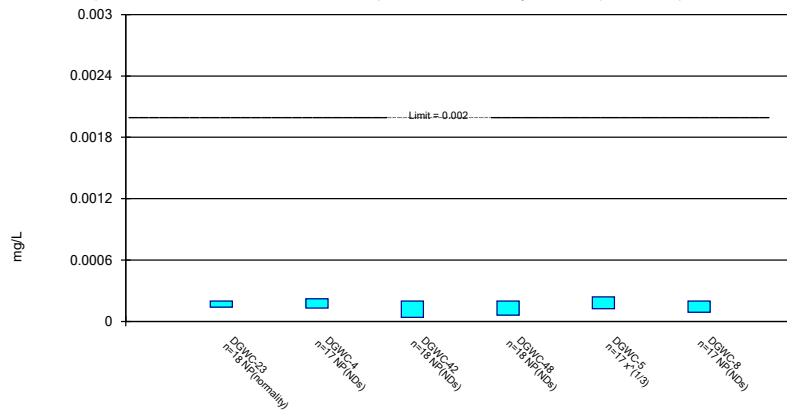
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 5/4/2023 2:53 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

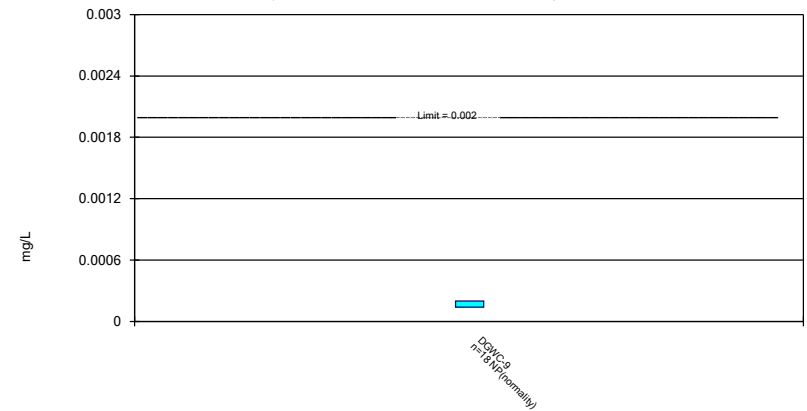
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Mercury Analysis Run 5/4/2023 2:53 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

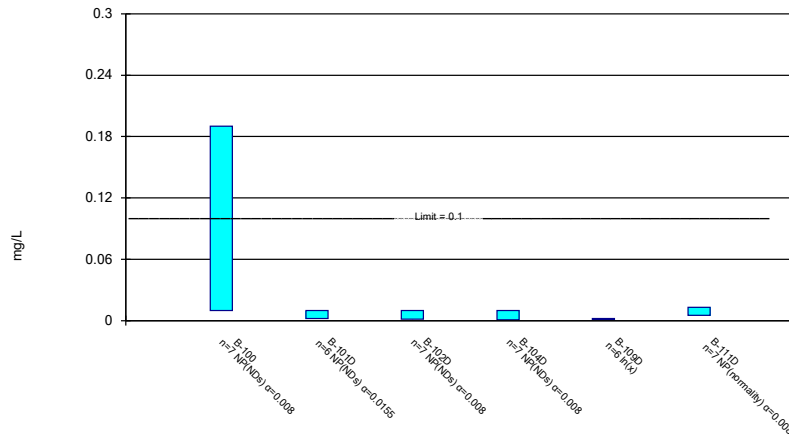
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 5/4/2023 2:53 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

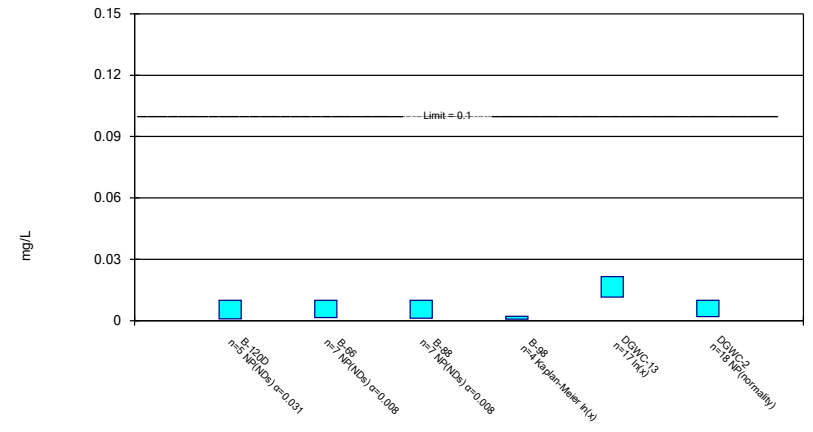
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 5/4/2023 2:53 PM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

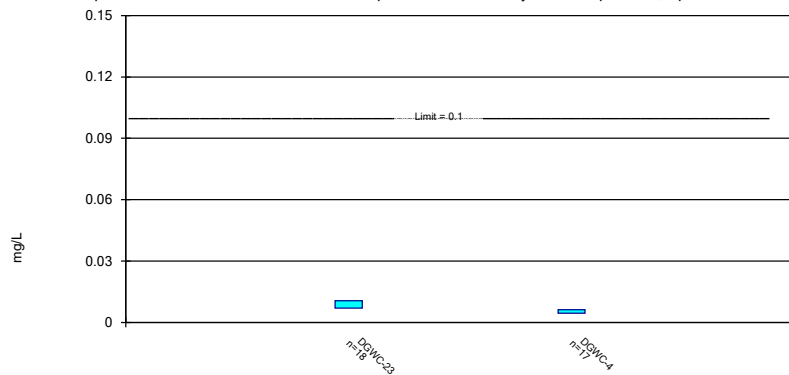
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 5/4/2023 2:53 PM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

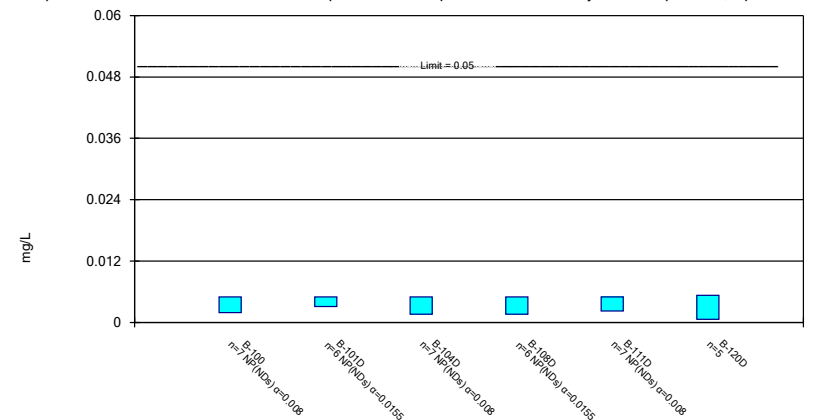
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 5/4/2023 2:53 PM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

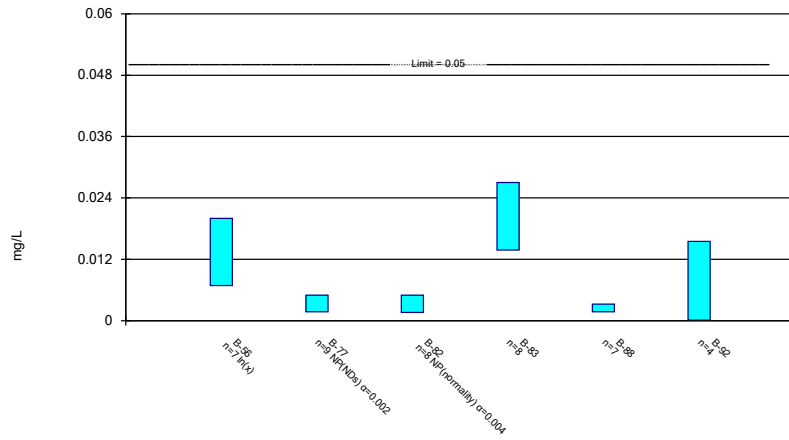
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 5/4/2023 2:53 PM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

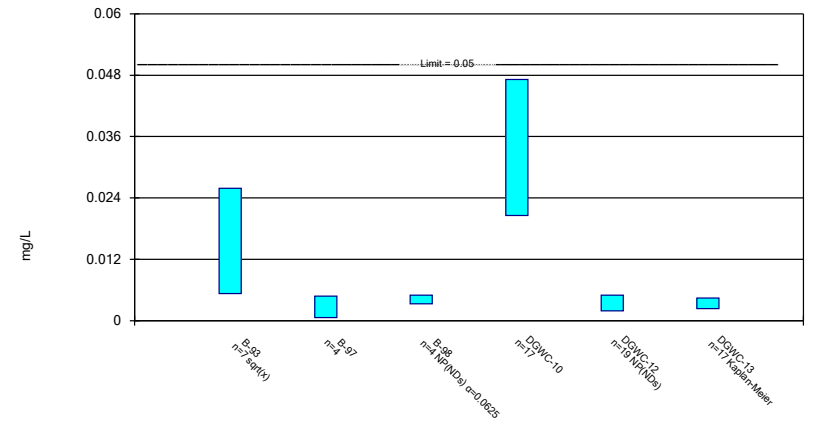
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 5/4/2023 2:53 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

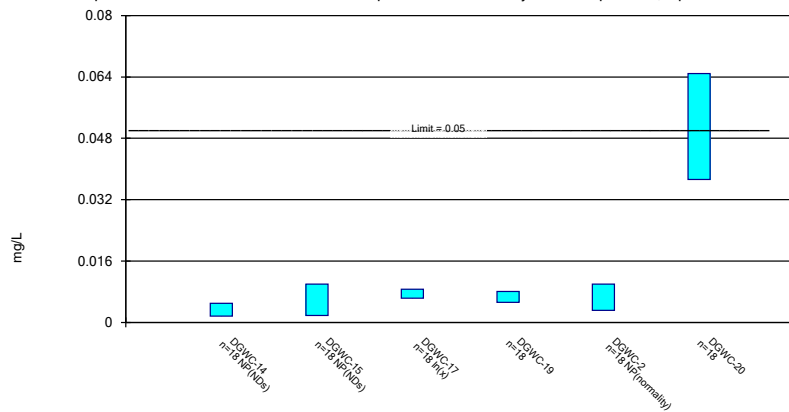
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 5/4/2023 2:53 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

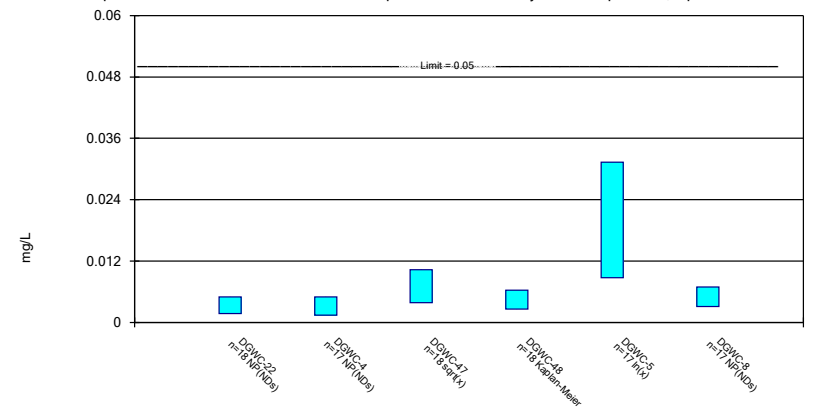
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 5/4/2023 2:53 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

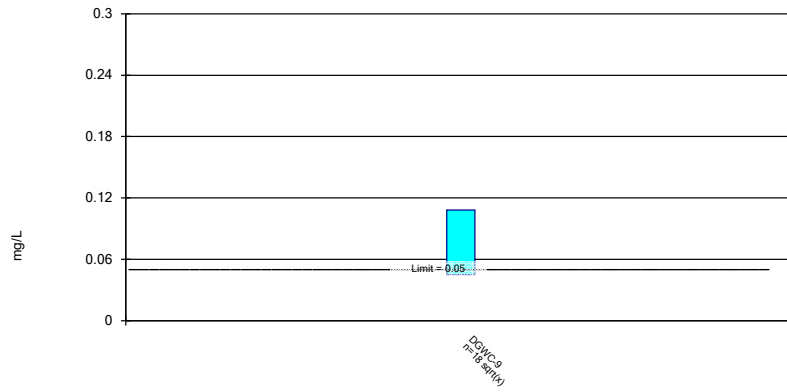
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 5/4/2023 2:53 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric Confidence Interval

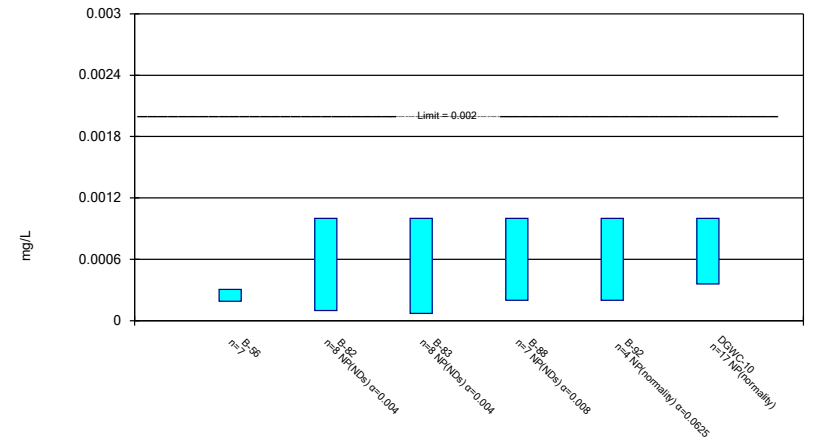
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 5/4/2023 2:53 PM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

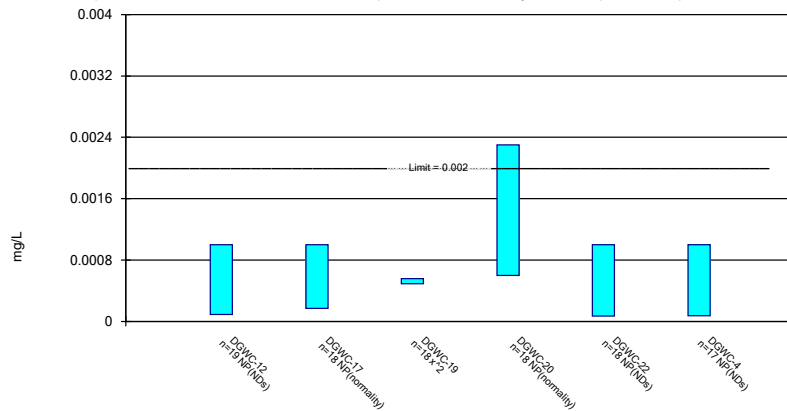
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Thallium Analysis Run 5/4/2023 2:53 PM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

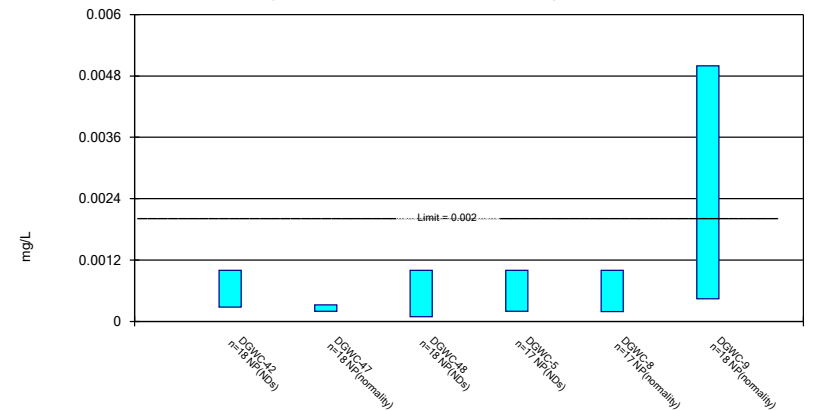
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Thallium Analysis Run 5/4/2023 2:53 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 5/4/2023 2:53 PM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP



# Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 5/4/2023 3:01 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-109D
8/17/2020	0.0013 (J)					
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		0.00039 (J)		0.00048 (J)		
1/13/2021						0.00042 (J)
3/4/2021			<0.003	0.00077 (J)	<0.003	
3/5/2021		0.0019 (J)				
3/8/2021	0.0017 (J)					0.00084 (J)
9/10/2021			<0.003			0.004
9/13/2021	<0.003	0.001 (J)			<0.003	
9/14/2021				<0.003		
1/20/2022						<0.003
1/21/2022	<0.003					
1/24/2022				0.001 (J)		
1/25/2022					<0.003	
1/26/2022		0.00082 (J)				
1/27/2022			<0.003			
9/8/2022	<0.003					
9/13/2022				<0.003		
9/15/2022			<0.003			
9/16/2022		<0.003			<0.003	
9/20/2022						<0.003
2/2/2023	<0.003		<0.003			
2/3/2023		<0.003		<0.003		
2/6/2023						<0.003
2/7/2023					<0.003	
Mean	0.002571	0.001685	0.0028	0.00172	0.00258	0.002377
Std. Dev.	0.000741	0.001131	0.0005292	0.001207	0.001029	0.001414
Upper Lim.	0.003	0.001784	0.003	0.003	0.003	0.002937
Lower Lim.	0.0013	0.0002715	0.0016	0.00048	0.00048	-0.0005536

# Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 5/4/2023 3:01 PM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-111D	B-120D	B-56	B-62	B-63	B-77
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			
9/24/2020				0.00046 (J)		0.00036 (J)
9/28/2020			<0.003			
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)					
3/12/2021				<0.003		
4/15/2021		0.00029 (J)				
9/9/2021				<0.003		
9/13/2021			<0.003			
9/14/2021	<0.003	<0.003			<0.003	<0.003
1/20/2022		<0.003		<0.003	<0.003	<0.003
1/24/2022	<0.003					
1/27/2022			0.0011 (J)			
9/8/2022				<0.003		
9/13/2022						<0.003
9/14/2022	<0.003				<0.003	
9/16/2022			<0.003			
9/19/2022		<0.003				
2/2/2023				<0.003	<0.003	
2/3/2023		<0.003				
2/6/2023						<0.003
2/7/2023	<0.003		<0.003			
Mean	0.002657	0.002458	0.002729	0.002746	0.002666	0.002158
Std. Dev.	0.0009071	0.001212	0.0007181	0.0008032	0.0008844	0.001265
Upper Lim.	0.003	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.0006	0.00029	0.0011	0.003	0.00066	0.00036

# Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 5/4/2023 3:01 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-93	B-98	DGWC-10	DGWC-12	DGWC-14	DGWC-15
8/31/2016			<0.003		<0.003	
9/1/2016				<0.003		
9/6/2016						<0.003
12/6/2016			<0.003		<0.003	
12/7/2016				<0.003		<0.003
3/29/2017			<0.003	<0.003	<0.003	
3/30/2017						<0.003
7/12/2017			<0.003	<0.003	<0.003	<0.003
10/24/2017			<0.003			
10/25/2017				<0.003	<0.003	<0.003
2/27/2018			<0.003	<0.003	<0.003	
2/28/2018						<0.003
7/11/2018				<0.003	<0.003	<0.003
11/6/2018			<0.003			
11/7/2018				<0.003	<0.003	<0.003
8/27/2019			<0.003	<0.003	<0.003	
8/28/2019						0.00033 (J)
9/17/2019				<0.003		
10/15/2019			<0.003	<0.003		
10/16/2019					<0.003	
10/17/2019						<0.003
3/2/2020				0.0003 (J)		
3/3/2020			<0.003		<0.003	<0.003
8/11/2020			<0.003	<0.003	<0.003	
8/13/2020						0.00073 (J)
8/19/2020	<0.003					
9/22/2020				<0.003	0.0011 (J)	
9/23/2020						<0.003
9/24/2020			<0.003			
9/28/2020	0.0014 (J)					
3/2/2021					<0.003	<0.003
3/3/2021				<0.003		
3/4/2021			<0.003			
3/9/2021	<0.003					
9/9/2021				<0.003	<0.003	<0.003
9/10/2021			<0.003			
9/15/2021	<0.003	<0.003				
1/24/2022						<0.003
1/25/2022				<0.003	<0.003	
1/26/2022	<0.003	<0.003	0.0021 (J)			
9/12/2022	0.00096 (J)					
9/13/2022		<0.003			<0.003	<0.003
9/15/2022			<0.003	<0.003		
1/31/2023	0.0015 (J)	0.001 (J)				
2/1/2023					0.001 (J)	
2/2/2023			<0.003			<0.003
2/6/2023				<0.003		
Mean	0.002266	0.0025	0.002947	0.002858	0.002783	0.002726
Std. Dev.	0.0009307	0.001	0.0002183	0.0006194	0.0006308	0.0008017
Upper Lim.	0.003	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.00096	0.001	0.0021	0.0003	0.0011	0.00073

# Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 5/4/2023 3:01 PM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-21	DGWC-23	DGWC-4
9/1/2016		<0.003				
9/2/2016				<0.003		
9/7/2016	<0.003					
12/7/2016		<0.003				
12/8/2016	<0.003			<0.003		
3/28/2017						<0.003
3/29/2017		<0.003				
3/30/2017	<0.003		<0.003	<0.003	<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		<0.003	<0.003	
10/24/2017			<0.003			<0.003
10/25/2017	<0.003	<0.003		<0.003		
10/26/2017					<0.003	
2/27/2018			<0.003			<0.003
2/28/2018	<0.003	<0.003		<0.003		
3/1/2018					<0.003	
7/11/2018	<0.003	<0.003	<0.003	0.0013 (J)		
7/12/2018					<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			<0.003
8/28/2019		<0.003				
8/29/2019				<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)
3/3/2020		<0.003	<0.003	<0.003		
3/4/2020	<0.003				<0.003	
8/11/2020		<0.003	<0.003			
8/12/2020						<0.003
8/13/2020					<0.003	
8/14/2020	<0.003			<0.003		
9/22/2020		0.00036 (J)				<0.003
9/23/2020			<0.003			
9/24/2020	0.00045 (J)			<0.003	<0.003	
3/1/2021						0.00049 (J)
3/2/2021		<0.003	<0.003			
3/3/2021	<0.003			<0.003	<0.003	
9/9/2021		<0.003	<0.003	<0.003	<0.003	
9/10/2021						<0.003
9/13/2021	<0.003					
1/20/2022			<0.003	<0.003	<0.003	
1/24/2022	<0.003					<0.003
1/25/2022		<0.003				
9/14/2022	<0.003	<0.003				
9/15/2022				<0.003		

# Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 5/4/2023 3:01 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-17	DGWC-19	DGWC-2	DGWC-21	DGWC-23	DGWC-4
9/19/2022						<0.003
9/20/2022			<0.003		<0.003	
2/3/2023						<0.003
2/6/2023	<0.003	<0.003	<0.003		<0.003	
2/7/2023				<0.003		
Mean	0.002858	0.002853	0.002867	0.002906	0.002872	0.002581
Std. Dev.	0.000601	0.0006223	0.0005657	0.0004007	0.0005421	0.0009356
Upper Lim.	0.003	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.00045	0.00036	0.0006	0.0013	0.0007	0.0008

# Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 5/4/2023 3:01 PM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-47	DGWC-48	DGWC-5	DGWC-8
8/30/2016				<0.003
8/31/2016			<0.003	
9/1/2016	<0.003	<0.003		
12/6/2016			<0.003	<0.003
12/8/2016	<0.003	<0.003		
3/28/2017			<0.003	
3/29/2017				<0.003
3/30/2017		<0.003		
3/31/2017	<0.003			
7/11/2017			<0.003	<0.003
7/13/2017	<0.003	<0.003		
10/24/2017				<0.003
10/25/2017			<0.003	
10/26/2017	<0.003	<0.003		
2/27/2018			<0.003	<0.003
3/1/2018	<0.003			
3/2/2018		<0.003		
7/12/2018	<0.003	<0.003		
11/6/2018			<0.003	<0.003
11/7/2018	<0.003	<0.003		
8/27/2019			<0.003	
8/28/2019				<0.003
8/29/2019	<0.003	<0.003		
10/16/2019			<0.003	<0.003
10/17/2019	<0.003			
10/18/2019		<0.003		
3/2/2020			0.00032 (J)	
3/3/2020				<0.003
3/4/2020	<0.003	<0.003		
8/12/2020	<0.003		<0.003	<0.003
8/13/2020		<0.003		
9/22/2020			<0.003	
9/23/2020	0.0012 (J)	0.00039 (J)		<0.003
3/2/2021			0.0015 (J)	0.00046 (J)
3/3/2021	<0.003	<0.003		
9/10/2021	<0.003	0.0018 (J)	<0.003	
9/13/2021				<0.003
1/21/2022	<0.003			
1/24/2022		<0.003	<0.003	
1/25/2022				<0.003
9/13/2022	<0.003	<0.003		
9/14/2022			<0.003	
9/15/2022				<0.003
2/3/2023	<0.003	<0.003		
2/7/2023			<0.003	<0.003
Mean	0.0029	0.002788	0.002754	0.002851
Std. Dev.	0.0004243	0.0006618	0.0007248	0.000616
Upper Lim.	0.003	0.003	0.003	0.003
Lower Lim.	0.0012	0.0018	0.0015	0.00046

# Confidence Interval

Constituent: Arsenic (mg/L)    Analysis Run 5/4/2023 3:01 PM    View: AP 234 Confidence Intervals  
 Plant McDonough    Client: Southern Company    Data: McDonough AP

	B-101D	B-104D	B-109D	B-111D	B-120D	B-56
8/17/2020						0.0032 (J)
9/28/2020						0.0047 (J)
12/9/2020		<0.005		<0.005		
1/12/2021	<0.005	<0.005		<0.005		
1/13/2021			<0.005			
3/3/2021						0.003 (J)
3/4/2021		0.0025 (J)				
3/5/2021	0.0017 (J)			0.0023 (J)		
3/8/2021			<0.005			
4/15/2021					<0.005	
9/10/2021			<0.005			
9/13/2021	<0.005					0.0031 (J)
9/14/2021		0.0019 (J)		0.0029 (J)	<0.005	
1/20/2022			0.0026 (J)		0.0016 (J)	
1/24/2022		0.0035 (J)		0.0022 (J)		
1/26/2022	<0.005					
1/27/2022						0.0045 (J)
9/13/2022		<0.005				
9/14/2022				<0.005		
9/16/2022	<0.005					<0.005
9/19/2022					<0.005	
9/20/2022			<0.005			
2/3/2023	<0.005	<0.005			<0.005	
2/6/2023			<0.005			
2/7/2023				<0.005		0.005 (J)
Mean	0.00445	0.003986	0.0046	0.003914	0.00432	0.003714
Std. Dev.	0.001347	0.001348	0.0009798	0.001372	0.001521	0.000989
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.004889
Lower Lim.	0.0017	0.0019	0.0026	0.0022	0.0016	0.00254

# Confidence Interval

Constituent: Arsenic (mg/L)    Analysis Run 5/4/2023 3:01 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-92
1/28/2019		<0.005				
1/30/2019	<0.005					
9/11/2019	<0.005	<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	<0.005		0.002 (J)			
8/14/2020					<0.005	
8/17/2020				<0.005		
9/24/2020	<0.005		0.0025 (J)			
9/25/2020					<0.005	
9/28/2020				<0.005		
3/4/2021			0.002 (J)		<0.005	
3/12/2021	<0.005			<0.005		
9/9/2021	<0.005					
9/14/2021		<0.005	<0.005	<0.005		
9/15/2021						0.0012 (J)
9/16/2021					<0.005	
1/20/2022	0.0033 (J)	0.0022 (J)	0.003 (J)			
1/21/2022					0.0014 (J)	
1/25/2022				0.003 (J)		
1/26/2022						0.0015 (J)
9/8/2022	<0.005					
9/12/2022						<0.005
9/13/2022			<0.005		<0.005	
9/14/2022		<0.005				
9/16/2022				<0.005 (D)		
1/31/2023						0.0023 (J)
2/2/2023	<0.005	<0.005				
2/3/2023					<0.005	
2/6/2023			<0.005			
2/7/2023				0.004 (J)		
Mean	0.00483	0.0046	0.0036	0.004667	0.00455	0.0025
Std. Dev.	0.0005376	0.001058	0.00137	0.0007071	0.001273	0.00173
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.002721
Lower Lim.	0.005	0.0022	0.002	0.003	0.0014	0.0006126



# Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 5/4/2023 3:01 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-93	B-97	DGWC-10	DGWC-12	DGWC-14	DGWC-15
8/31/2016			0.0058		<0.005	
9/1/2016				<0.005		
9/6/2016						<0.005
12/6/2016			0.0017 (J)		<0.005	
12/7/2016				<0.005		<0.005
3/29/2017			0.0055	<0.005	<0.005	
3/30/2017						0.0006 (J)
7/12/2017			0.0042 (J)	<0.005	<0.005	<0.005
10/24/2017			0.0058			
10/25/2017				0.0006 (J)	<0.005	<0.005
2/27/2018			0.0105	<0.005	<0.005	
2/28/2018						<0.005
7/11/2018				<0.005	<0.005	<0.005
11/6/2018			<0.005 (J)			
11/7/2018				<0.005	<0.005	<0.005
8/27/2019			0.0024 (J)	<0.005	<0.005	
8/28/2019						<0.005
9/17/2019				<0.005		
10/15/2019			0.0078	0.00063 (J)		
10/16/2019					0.00039 (J)	
10/17/2019						0.00064 (J)
3/2/2020				<0.005		
3/3/2020			0.0025 (J)		<0.005	<0.005
8/11/2020			0.0028 (J)	<0.005	<0.005	
8/13/2020						0.0013 (J)
8/19/2020	0.0013 (J)					
9/22/2020				<0.005	<0.005	
9/23/2020						<0.005
9/24/2020			0.0078			
9/28/2020	0.0027 (J)					
3/2/2021					<0.005	<0.005
3/3/2021				<0.005		
3/4/2021			0.006			
3/9/2021	<0.005					
9/9/2021				<0.005	<0.005	<0.005
9/10/2021			0.0076			
9/15/2021	<0.005	<0.005				
1/24/2022						<0.005
1/25/2022				<0.005	<0.005	
1/26/2022	0.002 (J)	0.0014 (J)	0.0043 (J)			
9/12/2022	<0.005					
9/13/2022		<0.005			<0.005	<0.005
9/15/2022			0.0024 (J)	<0.005		
1/31/2023	0.0028 (J)					
2/1/2023		<0.005			<0.005	
2/2/2023			0.0036 (J)			<0.005
2/6/2023				<0.005		
Mean	0.0034	0.0041	0.004894	0.004538	0.004744	0.004308
Std. Dev.	0.001576	0.0018	0.002498	0.001383	0.001087	0.001598
Upper Lim.	0.002918	0.005	0.00646	0.005	0.005	0.005
Lower Lim.	0.001482	0.0014	0.003329	0.00063	0.00039	0.0013

# Confidence Interval

Constituent: Arsenic (mg/L)    Analysis Run 5/4/2023 3:01 PM    View: AP 234 Confidence Intervals  
 Plant McDonough    Client: Southern Company    Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-22	DGWC-4
9/1/2016		0.0022 (J)				
9/2/2016				0.0159	<0.005	
9/7/2016	<0.005					
12/7/2016		<0.005		0.0037 (J)		
12/8/2016	<0.005				<0.005	
3/28/2017						0.0005 (J)
3/29/2017		0.002 (J)		0.015	<0.005	
3/30/2017	0.0008 (J)		<0.005			
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	<0.005	0.0016 (J)		0.0121		
7/13/2017					<0.005	
10/24/2017			<0.005			<0.005
10/25/2017	0.0007 (J)	0.0022 (J)		0.0135	<0.005	
2/27/2018			<0.005			<0.005
2/28/2018	0.00073 (J)	0.0028 (J)		0.0177	0.001 (J)	
7/11/2018	<0.005	0.0009 (J)	<0.005	0.0055		
7/12/2018					<0.005	
11/6/2018			<0.005			<0.005
11/7/2018	<0.005	<0.005 (J)		0.0054	<0.005	
8/27/2019	<0.005		0.00099 (J)			<0.005
8/28/2019		0.00049 (J)				
8/29/2019				0.0064	<0.005	
10/15/2019						<0.005
10/16/2019		0.00046 (J)				
10/17/2019			<0.005	0.0094		
10/18/2019	0.0012 (J)				<0.005	
3/2/2020						<0.005
3/3/2020		<0.005	0.0025 (J)		<0.005	
3/4/2020	0.0014 (J)			0.029		
8/11/2020		0.0014 (J)	<0.005			
8/12/2020						<0.005
8/13/2020				0.014		
8/14/2020	<0.005				<0.005	
9/22/2020		0.0017 (J)		0.0063		<0.005
9/23/2020			<0.005			
9/24/2020	0.0011 (J)				<0.005	
3/1/2021						<0.005
3/2/2021		0.0013 (J)	<0.005	0.019		
3/3/2021	<0.005				<0.005	
9/9/2021		0.0027 (J)	<0.005			
9/10/2021				0.0083	<0.005	<0.005
9/13/2021	<0.005					
1/20/2022			0.0023 (J)		<0.005	
1/21/2022				0.015		
1/24/2022	0.0014 (J)					0.0011 (J)
1/25/2022		0.0014 (J)				
9/14/2022	<0.005	<0.005				
9/15/2022				0.016		
9/16/2022					<0.005	

# Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 5/4/2023 3:01 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-22	DGWC-4
9/19/2022						<0.005
9/20/2022			<0.005			
2/3/2023						<0.005
2/6/2023	<0.005	<0.005	<0.005		<0.005	
2/7/2023				0.023		
Mean	0.003463	0.002564	0.004488	0.01307	0.004778	0.003994
Std. Dev.	0.001991	0.001677	0.00121	0.00671	0.0009428	0.001873
Upper Lim.	0.005	0.0019	0.005	0.01713	0.005	0.005
Lower Lim.	0.0011	0.0009681	0.0025	0.009007	0.001	0.0011

# Confidence Interval

Constituent: Arsenic (mg/L)    Analysis Run 5/4/2023 3:01 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					<0.005	0.0241
8/31/2016				0.0035 (J)		
9/1/2016		0.0037 (J)	<0.005			
9/7/2016	<0.005					
12/6/2016				0.0032 (J)	<0.005	<0.005
12/8/2016	<0.005	0.0032 (J)	<0.005			
3/28/2017				0.0385		0.0243
3/29/2017					0.001 (J)	
3/30/2017			0.0015 (J)			
3/31/2017	0.0007 (J)	0.0031 (J)				
7/11/2017				0.0203	0.0012 (J)	0.0194
7/13/2017	<0.005	0.0018 (J)	0.0012 (J)			
10/24/2017					0.0015 (J)	0.0249
10/25/2017	<0.005			0.0119		
10/26/2017		0.0016 (J)	0.0008 (J)			
2/27/2018				0.0094	0.002 (J)	0.0405
2/28/2018	0.0011 (J)					
3/1/2018		0.0029 (J)				
3/2/2018			0.0017 (J)			
7/11/2018	<0.005					0.016
7/12/2018		0.0023 (J)	0.0015 (J)			
11/6/2018				<0.005	<0.005	0.017
11/7/2018	<0.005	<0.005 (J)	<0.005			
8/27/2019				<0.005		0.021
8/28/2019	<0.005				<0.005	
8/29/2019		0.00089 (J)	<0.005			
10/16/2019				0.0036 (J)	<0.005	
10/17/2019	<0.005	0.0013 (J)				0.033
10/18/2019			0.00079 (J)			
3/2/2020				0.0052		
3/3/2020					0.00096 (J)	0.015
3/4/2020	<0.005	0.0012 (J)	0.0006 (J)			
8/11/2020						0.022
8/12/2020		0.00081 (J)		0.002 (J)	<0.005	
8/13/2020	<0.005		<0.005			
9/22/2020	<0.005			0.0062		0.04
9/23/2020		<0.005	<0.005		<0.005	
3/2/2021				0.0013 (J)	<0.005	0.021
3/3/2021	<0.005	<0.005	<0.005			
9/10/2021		0.0016 (J)	<0.005	0.0031 (J)		0.031
9/13/2021	<0.005				<0.005	
1/20/2022	<0.005					
1/21/2022		0.0036 (J)				
1/24/2022			<0.005	0.0019 (J)		
1/25/2022					<0.005	
1/26/2022						0.012
9/13/2022	<0.005	<0.005	<0.005			
9/14/2022				0.0038 (J)		
9/15/2022					<0.005	
9/19/2022						0.016
2/1/2023	<0.005					
2/3/2023		<0.005	<0.005			0.014

# Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 5/4/2023 3:01 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
2/7/2023				0.0036 (J)	<0.005	
Mean	0.004544	0.002944	0.003505	0.007206	0.003921	0.02187
Std. Dev.	0.001328	0.001573	0.001945	0.009359	0.001736	0.009656
Upper Lim.	0.005	0.002645	0.005	0.007914	0.005	0.02771
Lower Lim.	0.0011	0.001412	0.0012	0.002606	0.0015	0.01603

# Confidence Interval

Constituent: Barium (mg/L)    Analysis Run 5/4/2023 3:01 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	0.015					
9/25/2020	0.022					
12/9/2020				0.026		0.13
12/17/2020			0.022		0.022	
1/11/2021			0.024			
1/12/2021		0.076		0.022		
3/4/2021			0.022	0.021	0.021	0.12
3/5/2021		0.064				
3/8/2021	0.022					
9/10/2021			0.02			
9/13/2021	0.021	0.076			0.02	0.087
9/14/2021				0.021		
1/21/2022	0.023					
1/24/2022				0.024		0.092
1/25/2022					0.02	
1/26/2022		0.062				
1/27/2022			0.022			
9/8/2022	0.021					
9/13/2022				0.021		
9/14/2022						0.057
9/15/2022			0.019			
9/16/2022		0.063			0.021	
2/2/2023	0.098		0.02			
2/3/2023		0.048		0.017		
2/6/2023						0.049
2/7/2023					0.022	
Mean	0.03171	0.06483	0.02129	0.02171	0.021	0.08917
Std. Dev.	0.02935	0.01044	0.001704	0.002812	0.0008944	0.03249
Upper Lim.	0.098	0.07917	0.02331	0.02505	0.02223	0.1338
Lower Lim.	0.015	0.05049	0.01926	0.01837	0.01977	0.04453

# Confidence Interval

Constituent: Barium (mg/L)    Analysis Run 5/4/2023 3:01 PM    View: AP 234 Confidence Intervals  
 Plant McDonough    Client: Southern Company    Data: McDonough AP

	B-108D	B-109D	B-111D	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	0.066		0.027			
1/12/2021			0.027			
1/13/2021		0.06				
3/3/2021					0.028	
3/4/2021	0.06					
3/5/2021			0.038			
3/8/2021		0.056				
3/12/2021						0.027
4/15/2021				0.044		
9/9/2021						0.021
9/10/2021		0.022				
9/13/2021					0.026	
9/14/2021	0.06		0.043	0.031		
1/20/2022		0.047		0.025		0.021
1/24/2022	0.056		0.038			
1/27/2022					0.03	
9/8/2022						0.018
9/14/2022			0.028			
9/15/2022	0.054					
9/16/2022					0.028	
9/19/2022				0.023		
9/20/2022		0.055				
2/2/2023						0.019
2/3/2023				0.021		
2/6/2023		0.057				
2/7/2023	0.051		0.028		0.027	
Mean	0.05783	0.0495	0.03271	0.0288	0.02786	0.0224
Std. Dev.	0.005307	0.01415	0.006726	0.009284	0.001676	0.003471
Upper Lim.	0.06512	0.0626	0.043	0.04436	0.02985	0.0255
Lower Lim.	0.05054	0.03436	0.027	0.01324	0.02587	0.0193

# Confidence Interval

Constituent: Barium (mg/L)    Analysis Run 5/4/2023 3:01 PM    View: AP 234 Confidence Intervals  
 Plant McDonough    Client: Southern Company    Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88
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
9/24/2020			0.12			
9/25/2020					0.027	0.021
9/28/2020				0.023		
3/4/2021			0.11		0.032	
3/5/2021						0.022
9/13/2021						0.016
9/14/2021	0.026	0.018	0.12	0.022		
9/16/2021					0.03	
1/20/2022	0.02		0.13			
1/21/2022					0.024	
1/25/2022		0.021		0.026		
1/27/2022						0.018
9/13/2022			0.089		0.025	
9/14/2022	0.032					
9/16/2022		0.02		0.02		0.016
2/2/2023	0.056					
2/3/2023					0.024	
2/6/2023			0.11			
2/7/2023		0.023		0.023		0.017
Mean	0.02914	0.019	0.1083	0.02488	0.0315	0.01886
Std. Dev.	0.01263	0.002449	0.01454	0.003871	0.01058	0.002734
Upper Lim.	0.04199	0.02191	0.1224	0.02898	0.056	0.02216
Lower Lim.	0.01784	0.01609	0.09429	0.02077	0.024	0.0157



# Confidence Interval

Constituent: Barium (mg/L)    Analysis Run 5/4/2023 3:01 PM    View: AP 234 Confidence Intervals  
 Plant McDonough    Client: Southern Company    Data: McDonough AP

	B-92	B-93	B-97	B-98	DGWC-10	DGWC-11
8/31/2016					0.0321	0.0545
12/6/2016					0.029	0.0564
3/29/2017					0.0335	0.0565
7/12/2017					0.0314	0.0572
10/24/2017					0.0317	0.0596
2/27/2018					0.028	0.0672
11/6/2018					0.025	0.074
8/27/2019					0.021	0.071
10/15/2019					0.024	0.064
3/2/2020						0.071
3/3/2020					0.024	
8/11/2020					0.024	0.064
8/19/2020		0.018				
9/22/2020						0.058
9/24/2020					0.021	
9/28/2020		0.017				
3/2/2021						0.052
3/4/2021					0.025	
3/9/2021		0.016 (J)				
9/9/2021						0.054
9/10/2021					0.019	
9/15/2021	0.015	0.016	0.02	0.082		
1/25/2022						0.047
1/26/2022	0.016	0.021	0.02	0.035	0.022	
9/12/2022	0.017	0.015				
9/13/2022			0.02	0.092		
9/15/2022					0.018	0.047
1/31/2023	0.015	0.015		0.041		
2/1/2023			0.021			
2/2/2023					0.02	
2/6/2023						0.039
Mean	0.01575	0.01686	0.02025	0.0625	0.02522	0.05838
Std. Dev.	0.0009574	0.002116	0.0005	0.02869	0.004916	0.009432
Upper Lim.	0.01792	0.01937	0.021	0.1276	0.0283	0.06429
Lower Lim.	0.01358	0.01434	0.02	-0.002632	0.02214	0.05247

# Confidence Interval

Constituent: Barium (mg/L) Analysis Run 5/4/2023 3:01 PM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016			0.0576			
9/1/2016	0.0254					0.0214
9/6/2016		0.0297		0.0497		
9/7/2016					0.0694	
12/6/2016			0.0608			
12/7/2016	0.0241	0.0266		0.0469		0.0191
12/8/2016					0.062	
3/29/2017	0.0268		0.0693			0.0209
3/30/2017		0.0308		0.0495	0.0615	
7/12/2017	0.0262	0.0291	0.0585	0.0517	0.0532	0.0212
10/25/2017	0.0268		0.0563	0.0474	0.0544	0.021
11/15/2017		0.0309				
2/27/2018	0.0255		0.0591			
2/28/2018		<0.01		0.0455	0.0527	0.0213
7/11/2018	0.026		0.061	0.05	0.053	0.023
11/7/2018	0.028	0.034	0.055	0.042	0.044	0.024
8/27/2019	0.024		0.059		0.05	
8/28/2019		0.033		0.047		0.026
9/17/2019	0.02					
10/15/2019	0.02					
10/16/2019		0.034	0.059			0.024
10/17/2019				0.046		
10/18/2019					0.045	
3/2/2020	0.04					
3/3/2020		0.035	0.064	0.05		0.028
3/4/2020					0.044	
8/11/2020	0.028		0.061			0.027
8/12/2020		0.032				
8/13/2020				0.06		
8/14/2020					0.046	
9/22/2020	0.036		0.06			0.026
9/23/2020		0.03		0.043		
9/24/2020					0.033	
3/2/2021		0.03	0.064	0.043		0.026
3/3/2021	0.035				0.036	
9/9/2021	0.04	0.027	0.059	0.041		0.025
9/13/2021					0.031	
1/24/2022				0.041	0.031	
1/25/2022	0.054	0.028	0.064			0.026
9/13/2022			0.063	0.042		
9/14/2022					0.031	0.027
9/15/2022	0.035	0.027				
2/1/2023		0.023	0.057			
2/2/2023				0.039		
2/6/2023	0.047				0.029	0.025
Mean	0.03094	0.02854	0.06042	0.04637	0.0459	0.02399
Std. Dev.	0.009145	0.006817	0.003451	0.00507	0.01217	0.002629
Upper Lim.	0.03562	0.03205	0.06251	0.04944	0.05326	0.02559
Lower Lim.	0.02551	0.02695	0.05833	0.0433	0.03854	0.0224

# Confidence Interval

Constituent: Barium (mg/L)    Analysis Run 5/4/2023 3:01 PM    View: AP 234 Confidence Intervals  
 Plant McDonough    Client: Southern Company    Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4
9/2/2016		0.0097 (J)	0.0252	0.0397		
12/7/2016		0.0087 (J)				
12/8/2016			0.0262	0.0408		
3/28/2017						0.0363
3/29/2017		0.0094 (J)		0.0417		
3/30/2017	0.0232		0.0272		0.0184	
5/11/2017	0.0231					
5/12/2017					0.0202	0.0337
6/15/2017	0.0223				0.0188	0.03
7/11/2017	0.0201					0.0301
7/12/2017		0.0099 (J)	0.0276		0.0186	
7/13/2017				0.0376		
10/24/2017	0.0206					0.0351
10/25/2017		0.0096 (J)	0.0262	0.0384		
10/26/2017					0.0176	
2/27/2018	0.0207					0.0364
2/28/2018		<0.01	0.027	0.0353		
3/1/2018					0.0164	
7/11/2018	0.022	0.01	0.027			
7/12/2018				0.036	0.022	
11/6/2018	0.021					0.035
11/7/2018		0.011	0.024	0.031		
11/8/2018					0.022	
8/27/2019	0.023					0.036
8/29/2019		0.018	0.027	0.031	0.025	
10/15/2019						0.033
10/17/2019	0.022	0.015	0.027			
10/18/2019				0.032	0.019	
3/2/2020						0.036
3/3/2020	0.022		0.027	0.035		
3/4/2020		0.017			0.032	
8/11/2020	0.022					
8/12/2020						0.036
8/13/2020		0.019			0.027	
8/14/2020			0.027	0.035		
9/22/2020		0.011				0.03
9/23/2020	0.023					
9/24/2020			0.024	0.031	0.02	
3/1/2021						0.039
3/2/2021	0.023	0.021				
3/3/2021			0.024	0.031	0.019	
9/9/2021	0.022		0.023		0.021	
9/10/2021		0.0098		0.027		0.032
1/20/2022	0.022		0.024	0.029	0.024	
1/21/2022		0.018				
1/24/2022						0.035
9/15/2022		0.017	0.024			
9/16/2022				0.029		
9/19/2022						0.032
9/20/2022	0.02				0.019	
2/3/2023						0.034
2/6/2023	0.02			0.027	0.023	

# Confidence Interval

Constituent: Barium (mg/L) Analysis Run 5/4/2023 3:01 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-2	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4
2/7/2023		0.019	0.024			
Mean	0.02178	0.01323	0.02563	0.03375	0.02128	0.03409
Std. Dev.	0.001114	0.004702	0.001559	0.004633	0.003837	0.002591
Upper Lim.	0.023	0.01583	0.027	0.03655	0.0234	0.03572
Lower Lim.	0.0206	0.01012	0.024	0.03095	0.01897	0.03247

# Confidence Interval

Constituent: Barium (mg/L)    Analysis Run 5/4/2023 3:01 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					0.0435	0.0162
8/31/2016				0.0266 (O)		
9/1/2016		0.0162	0.0157			
9/7/2016	0.0194					
12/6/2016				0.0186	0.0431	0.0138
12/8/2016	0.0189	0.0247	0.0155			
3/28/2017				0.0187		0.017
3/29/2017					0.044	
3/30/2017			0.0131			
3/31/2017	0.0194	0.0189				
7/11/2017				0.0174 (J)	0.0389	0.0154 (J)
7/13/2017	0.021	0.0165	0.014			
10/24/2017					0.0369	0.0148
10/25/2017	0.0196			0.0175		
10/26/2017		0.0152	0.0117			
2/27/2018				0.0172	0.0346	0.0148
2/28/2018	0.0171					
3/1/2018		0.0164				
3/2/2018			0.0131			
7/11/2018	0.02					0.017
7/12/2018		0.015	0.013			
11/6/2018				0.016	0.027	0.015
11/7/2018	0.017	0.02	0.014			
8/27/2019				0.017		0.016
8/28/2019	0.018				0.025	
8/29/2019		0.018	0.014			
10/16/2019				0.02	0.027	
10/17/2019	0.018	0.019				0.015
10/18/2019			0.014			
3/2/2020				0.018		
3/3/2020					0.026	0.016
3/4/2020	0.015	0.017	0.014			
8/11/2020						0.016
8/12/2020		0.016		0.017	0.034	
8/13/2020	0.027		0.013			
9/22/2020	0.016			0.017		0.015
9/23/2020		0.014	0.013		0.025	
3/2/2021				0.017	0.029	0.017
3/3/2021	0.015	0.02	0.014			
9/10/2021		0.021	0.013	0.015		0.014
9/13/2021	0.014				0.019	
1/20/2022	0.014					
1/21/2022		0.017				
1/24/2022			0.014	0.018		
1/25/2022					0.019	
1/26/2022						0.016
9/13/2022	0.016	0.022	0.014			
9/14/2022				0.018		
9/15/2022					0.021	
9/19/2022						0.017
2/1/2023	0.015					
2/3/2023		0.019	0.013			0.019

# Confidence Interval

Constituent: Barium (mg/L) Analysis Run 5/4/2023 3:01 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
2/7/2023				0.019	0.025	
Mean	0.0178	0.01811	0.01367	0.01759	0.03047	0.01583
Std. Dev.	0.003157	0.002737	0.000943	0.001194	0.008452	0.001275
Upper Lim.	0.01956	0.01976	0.0155	0.01836	0.03577	0.0166
Lower Lim.	0.01589	0.01645	0.013	0.01681	0.02517	0.01506

# Confidence Interval

Constituent: Beryllium (mg/L)    Analysis Run 5/4/2023 3:01 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			
9/8/2022	0.00058					
9/13/2022				0.0014		
9/14/2022						<0.0005
9/15/2022			0.001			
9/16/2022		6.7E-05 (J)			0.00011 (J)	
2/2/2023	<0.0005		0.00091			
2/3/2023		6.3E-05 (J)		0.0016		
2/6/2023						<0.0005
2/7/2023					8.4E-05 (J)	
Mean	0.0004429	6.483E-05	0.001144	0.001371	0.000114	0.000425
Std. Dev.	0.0001169	1.032E-05	0.0001695	0.0001799	1.72E-05	0.0001837
Upper Lim.	0.0005817	7.901E-05	0.001346	0.001585	0.0001376	0.0005
Lower Lim.	0.000304	5.065E-05	0.000943	0.001158	9.037E-05	5E-05

# Confidence Interval

Constituent: Beryllium (mg/L)    Analysis Run 5/4/2023 3:01 PM    View: AP 234 Confidence Intervals  
 Plant McDonough    Client: Southern Company    Data: McDonough AP

	B-109D	B-120D	B-56	B-62	B-63	B-77
10/6/2016				9E-05 (J)		
10/7/2016					0.0004 (J)	
2/19/2018					0.00049 (J)	
1/28/2019					<0.003	
1/30/2019				<0.0025		
9/11/2019				0.00012 (J)	0.00035 (J)	
9/18/2019						0.00011 (J)
10/21/2019				7.8E-05 (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)			
9/24/2020				0.00013 (J)		5.3E-05 (J)
9/28/2020			0.0012 (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				<0.0025		
4/15/2021		0.00085				
9/9/2021				0.00014 (J)		
9/10/2021	<0.0005					
9/13/2021			0.0012			
9/14/2021		0.00087			0.00042 (J)	<0.0005
1/20/2022	7.1E-05 (J)	0.0011		0.00015 (J)	0.00034 (J)	<0.0005
1/27/2022			0.0012			
9/8/2022				0.00013 (J)		
9/13/2022						0.00013 (J)
9/14/2022					0.00053	
9/16/2022			0.0013			
9/19/2022		0.0011				
9/20/2022	8E-05 (J)					
2/2/2023				0.00012 (J)	0.00028 (J)	
2/3/2023		0.001				
2/6/2023	7.3E-05 (J)					<0.0005
2/7/2023			0.0012			
Mean	0.0001437	0.000984	0.001214	0.0005516	0.0005122	0.0002767
Std. Dev.	0.0001747	0.0001205	6.901E-05	0.0009635	0.0003796	0.0002138
Upper Lim.	0.0005	0.001186	0.001296	0.0025	0.0015	0.0005
Lower Lim.	5.9E-05	0.000782	0.001132	9E-05	0.00028	5.3E-05



# Confidence Interval

Constituent: Beryllium (mg/L)    Analysis Run 5/4/2023 3:01 PM    View: AP 234 Confidence Intervals  
 Plant McDonough    Client: Southern Company    Data: McDonough AP

	B-82	B-83	B-88	B-92	B-93	B-97
9/23/2019	0.0015 (J)					
10/21/2019	0.0011 (J)	0.00039 (J)				
12/18/2019				0.022		
12/19/2019					0.0069	
2/17/2020						<0.003
2/27/2020						0.0019 (J)
8/14/2020		0.0007 (J)				
8/17/2020	0.0014 (J)		0.0014 (J)			
8/19/2020					0.015	
9/25/2020		0.00028 (J)	0.00063 (J)			
9/28/2020	0.0015 (J)				0.015	
3/4/2021		0.00037 (J)				
3/5/2021			0.005			
3/9/2021				0.017	0.017	0.0019
9/13/2021			0.001			
9/14/2021	0.0017					
9/15/2021				0.014	0.015	0.0016
9/16/2021		0.00028 (J)				
1/21/2022		0.00039 (J)				
1/25/2022	0.0021					
1/26/2022				0.018	0.017	0.0017
1/27/2022			0.0019			
9/12/2022				0.017	0.017	
9/13/2022		0.00044 (J)				0.0017
9/16/2022	0.002		0.0013			
1/31/2023				0.017	0.016	
2/1/2023						0.0017
2/3/2023		0.00038 (J)				
2/7/2023	0.0018		0.0016			
Mean	0.001638	0.0004038	0.001833	0.0175	0.01486	0.001714
Std. Dev.	0.0003292	0.0001319	0.001455	0.002588	0.003348	0.0001464
Upper Lim.	0.001986	0.0005267	0.003353	0.02106	0.01711	0.001888
Lower Lim.	0.001289	0.0002862	0.0005465	0.01394	0.01342	0.00154

# Confidence Interval

Constituent: Beryllium (mg/L)    Analysis Run 5/4/2023 3:01 PM    View: AP 234 Confidence Intervals  
 Plant McDonough    Client: Southern Company    Data: McDonough AP

	B-98	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-15
8/31/2016		0.0046	<0.003			
9/1/2016				0.0002 (J)		
9/6/2016					<0.003	<0.0005
12/6/2016		0.0048	<0.003			
12/7/2016				0.0002 (J)	<0.003	<0.0005
3/29/2017		0.0048	<0.003	0.0002 (J)		
3/30/2017					7E-05 (J)	<0.0005
7/12/2017		0.0046	<0.003	0.0002 (J)	<0.003	<0.0005
10/24/2017		0.0048	<0.003			
10/25/2017				0.0002 (J)		<0.0005
11/15/2017					<0.003	
2/27/2018		0.0106	<0.003	<0.0005		
2/28/2018					<0.003	<0.0005
7/11/2018				0.0002 (J)		<0.0005
11/6/2018		0.012	<0.003 (J)			
11/7/2018				<0.003 (J)	<0.003 (J)	<0.003 (J)
8/27/2019		0.0092	0.00014 (J)	0.00028 (J)		
8/28/2019					<0.003	<0.0005
9/17/2019				0.00049 (J)		
10/15/2019		0.01	0.00012 (J)	0.00016 (J)		
10/16/2019					<0.003	
10/17/2019						<0.0005
2/17/2020	<0.0005					
2/27/2020	<0.0005					
3/2/2020			0.00016 (J)	7.4E-05 (J)		
3/3/2020		0.0085			<0.003	<0.0005
8/11/2020		0.0066	0.00011 (J)	0.00024 (J)		
8/12/2020					7.8E-05 (J)	
8/13/2020						0.00022 (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				
3/2/2021			0.00014 (J)		7.3E-05 (J)	<0.0005
3/3/2021				0.00011 (J)		
3/4/2021		0.0086				
3/15/2021	<0.0005					
9/9/2021			0.00013 (J)	8.4E-05 (J)	7E-05 (J)	<0.0005
9/10/2021		0.0074				
9/15/2021	0.00087					
1/24/2022						<0.0005
1/25/2022			0.00019 (J)	<0.0005	9.1E-05 (J)	
1/26/2022	6.8E-05 (J)	0.0091				
9/13/2022	6.2E-05 (J)					<0.0005
9/15/2022		0.0063	0.00018 (J)	0.00019 (J)	8E-05 (J)	
1/31/2023	<0.0005					
2/1/2023					6.7E-05 (J)	
2/2/2023		0.0066				<0.0005
2/6/2023			0.00019 (J)	8.2E-05 (J)		
Mean	0.0004286	0.007424	0.001324	0.0003726	0.001623	0.0005988
Std. Dev.	0.0002827	0.002311	0.001445	0.0006498	0.001505	0.0006111
Upper Lim.	0.00087	0.008872	0.003	0.00049	0.003	0.003
Lower Lim.	6.2E-05	0.005975	0.00013	0.00011	7E-05	0.00022

# Confidence Interval

Constituent: Beryllium (mg/L)    Analysis Run 5/4/2023 3:01 PM    View: AP 234 Confidence Intervals  
 Plant McDonough    Client: Southern Company    Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-20	DGWC-21	DGWC-22	DGWC-23
9/1/2016		0.0019 (J)				
9/2/2016			0.0026 (J)	0.0001 (J)	0.0002 (J)	
9/7/2016	0.0006 (J)					
12/7/2016		0.0021 (J)	0.0035			
12/8/2016	0.0005 (J)			0.0001 (J)	0.0001 (J)	
3/29/2017		0.0017 (J)	0.0026 (J)		0.0002 (J)	
3/30/2017	0.0006 (J)			0.0002 (J)		0.0004 (J)
5/12/2017						0.0004 (J)
6/15/2017						0.0004 (J)
7/12/2017	0.0005 (J)	0.0018 (J)	0.0025 (J)	0.0001 (J)		0.0004 (J)
7/13/2017					0.0002 (J)	
10/25/2017	0.0005 (J)	0.0019 (J)	0.0027 (J)	0.0002 (J)	0.0002 (J)	
10/26/2017						0.0004 (J)
2/28/2018	<0.003	<0.003	<0.003	<0.003	<0.003	
3/1/2018						<0.003
7/11/2018	0.00058 (J)	0.002 (J)	0.0026 (J)	0.00016 (J)		
7/12/2018					0.00018 (J)	0.00035 (J)
11/7/2018	<0.003	<0.003 (J)	<0.003 (J)	<0.003 (J)	<0.003 (J)	
11/8/2018						<0.003 (J)
8/27/2019	0.00066 (J)					
8/28/2019		0.0018 (J)				
8/29/2019			0.005	0.00018 (J)	0.00015 (J)	0.00041 (J)
10/16/2019		0.0017 (J)				
10/17/2019			0.0041	0.00015 (J)		
10/18/2019	0.00071 (J)				0.00014 (J)	0.00038 (J)
3/3/2020		0.0021 (J)		0.00019 (J)	0.00017 (J)	
3/4/2020	0.00062 (J)		0.0089			0.00077 (J)
8/11/2020		0.002 (J)				
8/13/2020			0.0063			0.00041 (J)
8/14/2020	0.00064 (J)			0.0002 (J)	0.00016 (J)	
9/22/2020		0.002 (J)	0.0027 (J)			
9/24/2020	0.0006 (J)			0.00018 (J)	0.00017 (J)	0.00045 (J)
3/2/2021		0.0019	0.0057			
3/3/2021	0.00056			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)	
9/13/2021	0.00052					
1/20/2022				0.00019 (J)	0.00014 (J)	0.00046 (J)
1/21/2022			0.007			
1/24/2022	0.00059					
1/25/2022		0.0019				
9/14/2022	0.00058	0.0018				
9/15/2022			0.0056	0.00018 (J)		
9/16/2022					0.00023 (J)	
9/20/2022						0.00037 (J)
2/6/2023	0.00051	0.0017			0.0001 (J)	0.00038 (J)
2/7/2023			0.0073	0.00016 (J)		
Mean	0.0006817	0.001861	0.004139	0.0003133	0.0003117	0.0005544
Std. Dev.	0.0003034	0.0001944	0.002198	0.000433	0.0004338	0.0003563
Upper Lim.	0.00066	0.001979	0.005237	0.0002	0.00023	0.0005
Lower Lim.	0.00051	0.001743	0.002716	0.00015	0.00014	0.00038

# Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 5/4/2023 3:01 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						0.0018 (J)
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
12/8/2016		0.0023 (J)	0.0116	0.0086		
3/28/2017	0.0002 (J)				0.0049	
3/29/2017						0.0031
3/30/2017				0.0106		
3/31/2017		0.0025 (J)	0.0112			
5/12/2017	0.0002 (J)					
6/15/2017	0.0001 (J)					
7/11/2017	0.0001 (J)				0.005	0.0022 (J)
7/13/2017		0.0025 (J)	0.0098	0.0106		
10/24/2017	0.0002 (J)					0.0042
10/25/2017		0.0026 (J)			0.0069	
10/26/2017			0.0119	0.0078		
2/27/2018	<0.003				0.0086	0.0047
2/28/2018		<0.003				
3/1/2018			0.0146			
3/2/2018				0.0096		
7/11/2018		0.0029 (J)				
7/12/2018			0.013	0.0086		
11/6/2018	<0.003 (J)				0.01	<0.003 (J)
11/7/2018		0.0031	0.014	0.0078		
8/27/2019	0.00024 (J)				0.01	
8/28/2019		0.0023 (J)				0.0021 (J)
8/29/2019			0.011	0.0081		
10/15/2019	0.00022 (J)					
10/16/2019					0.0072	0.0019 (J)
10/17/2019		0.0027 (J)	0.0093			
10/18/2019				0.0099		
3/2/2020	0.00025 (J)				0.0098	
3/3/2020						0.0018 (J)
3/4/2020		0.0029 (J)	0.01	0.008		
8/12/2020	0.00024 (J)		0.0068		0.0081	0.0018 (J)
8/13/2020		0.0026 (J)		0.0071		
9/22/2020	0.00019 (J)	0.0013 (J)			0.0081	
9/23/2020			0.0069	0.0072		0.0015 (J)
3/1/2021	0.00027 (J)					
3/2/2021					0.0063	0.0012
3/3/2021		0.0023	0.0081	0.0068		
9/10/2021	0.00028 (J)		0.009	0.007	0.0075	
9/13/2021		0.0024				0.0015
1/20/2022		0.002				
1/21/2022			0.01			
1/24/2022	0.00033 (J)			0.0069	0.0084	
1/25/2022						0.0012
9/13/2022		0.0028	0.0094	0.0071		
9/14/2022					0.01	
9/15/2022						0.00088
9/19/2022	0.00034 (J)					

# Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 5/4/2023 3:01 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8
2/1/2023		0.0022				
2/3/2023	0.00033 (J)		0.0087	0.0062		
2/7/2023					0.0083	0.0007
Mean	0.0003818	0.002389	0.01066	0.008106	0.0077	0.002087
Std. Dev.	0.0004264	0.0004651	0.002616	0.001316	0.001719	0.001127
Upper Lim.	0.00034	0.00267	0.01224	0.008902	0.008777	0.002658
Lower Lim.	0.00019	0.002107	0.009073	0.007309	0.006623	0.001367

# Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 5/4/2023 3:01 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-9
8/30/2016	0.0045
12/6/2016	0.005
3/28/2017	0.0052
7/11/2017	0.0048
10/24/2017	0.0051
2/27/2018	0.0057
7/11/2018	0.0058
11/6/2018	0.006
8/27/2019	0.007
10/17/2019	0.0063
3/3/2020	0.0048
8/11/2020	0.0062
9/22/2020	0.0049
3/2/2021	0.005
9/10/2021	0.0049
1/26/2022	0.0054
9/19/2022	0.0047
2/3/2023	0.0046
Mean	0.005328
Std. Dev.	0.0006918
Upper Lim.	0.005746
Lower Lim.	0.004909

# Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 5/4/2023 3:01 PM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-106D	B-120D	B-56
8/17/2020	0.00059 (J)					0.00029 (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				
3/3/2021						0.00026 (J)
3/4/2021			0.00081	0.00021 (J)		
3/5/2021		<0.0005				
3/8/2021	0.00027 (J)					
4/15/2021					0.001	
9/10/2021			0.00083			
9/13/2021	0.00029 (J)	<0.0005		0.00024 (J)		0.00028 (J)
9/14/2021					0.0011	
1/20/2022					0.00098	
1/21/2022	0.00059					
1/25/2022				0.00012 (J)		
1/26/2022		0.00011 (J)				
1/27/2022			0.00091			0.00025 (J)
9/8/2022	0.00027 (J)					
9/15/2022			0.00091			
9/16/2022		<0.0005		<0.0005		0.0003 (J)
9/19/2022					0.0012	
2/2/2023	<0.0005		0.00087			
2/3/2023		<0.0005			0.0011	
2/7/2023				<0.0005		0.00036 (J)
Mean	0.0003614	0.000435	0.0008286	0.000295	0.001076	0.0002829
Std. Dev.	0.0001566	0.0001592	8.295E-05	0.0001637	8.877E-05	4.03E-05
Upper Lim.	0.00059	0.0005	0.0009271	0.0002594	0.001225	0.0003307
Lower Lim.	0.00025	0.00011	0.00073	0.0001308	0.0009273	0.000235

# Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 5/4/2023 3:01 PM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-82	B-83	B-88	B-92	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)		0.0018 (J)		
8/19/2020						0.00077 (J)
9/25/2020			0.00026 (J)	0.00022 (J)		
9/28/2020		0.00066 (J)				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		
9/14/2021	0.00025 (J)	0.0007				
9/15/2021					0.00096	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					0.001	0.00079
1/27/2022				0.0036		
9/12/2022					0.0014	0.00084
9/13/2022			0.00031 (J)			
9/14/2022	0.00018 (J)					
9/16/2022		0.00073		0.0019		
1/31/2023					0.0015	0.00089
2/2/2023	<0.0005					
2/3/2023			0.0003 (J)			
2/7/2023		0.00081		0.0033		
Mean	0.0003671	0.0006238	0.0003213	0.00266	0.001215	0.0008086
Std. Dev.	0.0001688	0.0001572	4.704E-05	0.002048	0.0002749	6.149E-05
Upper Lim.	0.0005	0.0007904	0.0003711	0.005092	0.001839	0.0008816
Lower Lim.	0.00014	0.0004571	0.0002714	0.0002277	0.0005909	0.0007355



# Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 5/4/2023 3:01 PM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-97	B-98	DGWC-10	DGWC-11	DGWC-12	DGWC-13
8/31/2016			0.0012	<0.0005		
9/1/2016					0.0004 (J)	
9/6/2016						<0.0005
12/6/2016			0.0013	<0.0005		
12/7/2016					0.0003 (J)	0.0002 (J)
3/29/2017			0.0013	<0.0005	0.0003 (J)	
3/30/2017						8E-05 (J)
7/12/2017			0.0013	<0.0005	0.0004 (J)	<0.0005
10/24/2017			0.0014	<0.0005		
10/25/2017					0.0004 (J)	
11/15/2017						<0.0005
2/27/2018			0.001	<0.0005	<0.0005	
2/28/2018						<0.0005
7/11/2018					0.00033 (J)	
11/6/2018			0.0012	<0.0005		
11/7/2018					<0.001 (J)	<0.0005
8/27/2019			0.00077 (J)	0.00012 (J)	0.00037 (J)	
8/28/2019						<0.0005
9/17/2019					0.00035 (J)	
10/15/2019			0.00095 (J)	<0.0005	0.00025 (J)	
10/16/2019						<0.0005
3/2/2020				<0.0005	<0.0005	
3/3/2020			0.00095 (J)			<0.0005
8/11/2020			0.00071 (J)	<0.0005	0.00038 (J)	
8/12/2020						<0.0005
9/22/2020				0.00016 (J)	0.00017 (J)	
9/23/2020						<0.0005
9/24/2020			0.00055 (J)			
3/2/2021				0.00013 (J)		<0.0005
3/3/2021					0.00016 (J)	
3/4/2021			0.00088			
9/9/2021				<0.0005	<0.0005	<0.0005
9/10/2021			0.00061			
9/15/2021	0.00056	0.0003 (J)				
1/25/2022				0.00016 (J)	<0.0005	<0.0005
1/26/2022	0.00055	<0.0005	0.0007			
9/13/2022	0.00055	0.00031 (J)				
9/15/2022			0.00047 (J)	<0.0005	0.00017 (J)	<0.0005
1/31/2023		<0.0005				
2/1/2023	0.00063					<0.0005
2/2/2023			0.00059			
2/6/2023				0.00015 (J)	<0.0005	
Mean	0.0005725	0.0004025	0.0009341	0.0003953	0.0003937	0.0004576
Std. Dev.	3.862E-05	0.0001127	0.0003048	0.0001674	0.0001862	0.0001214
Upper Lim.	0.00063	0.0005	0.001125	0.0005	0.0003235	0.0005
Lower Lim.	0.00055	0.0003	0.0007431	0.00015	0.0002141	0.0002

# Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 5/4/2023 3:01 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-15	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21
9/1/2016			0.0004 (J)			
9/2/2016					0.0023	0.0006 (J)
9/6/2016	<0.0005					
9/7/2016		0.0003 (J)				
12/7/2016	9E-05 (J)		0.0004 (J)		0.0023	
12/8/2016		0.0003 (J)				0.0006 (J)
3/29/2017			0.0004 (J)		0.0021	
3/30/2017	9E-05 (J)	0.0003 (J)		0.0005 (J)		0.0008 (J)
5/11/2017				0.0004 (J)		
6/15/2017				0.0003 (J)		
7/11/2017				0.0003 (J)		
7/12/2017	<0.0005	0.0002 (J)	0.0004 (J)		0.0021	0.0006 (J)
10/24/2017				0.0003 (J)		
10/25/2017	<0.0005	0.0002 (J)	0.0004 (J)		0.002	0.0005 (J)
2/27/2018				<0.0005		
2/28/2018	<0.0005	<0.001	<0.001		0.0018	<0.0005
7/11/2018	<0.0005	0.00029 (J)	0.00039 (J)	0.00018 (J)	0.0018	0.00054 (J)
11/6/2018				<0.001 (J)		
11/7/2018	<0.001 (J)	<0.001	<0.001 (J)		0.0018	<0.001 (J)
8/27/2019		0.00033 (J)		0.00012 (J)		
8/28/2019	<0.0005		0.00033 (J)			
8/29/2019					0.002 (J)	0.00087 (J)
10/16/2019			0.00034 (J)			
10/17/2019	<0.0005			0.00013 (J)	0.0017 (J)	0.0006 (J)
10/18/2019		0.00029 (J)				
3/3/2020	0.00012 (J)		0.00037 (J)	0.00014 (J)		0.00063 (J)
3/4/2020		0.00028 (J)			0.0026	
8/11/2020			0.0003 (J)	<0.0005		
8/13/2020	0.00013 (J)				0.0021 (J)	
8/14/2020		0.00029 (J)				0.00054 (J)
9/22/2020			0.00036 (J)		0.0014 (J)	
9/23/2020	<0.0005			0.00013 (J)		
9/24/2020		0.00024 (J)				0.00073 (J)
3/2/2021	<0.0005		0.00035 (J)	<0.0005	0.0025	
3/3/2021		0.00023 (J)				0.00044 (J)
9/9/2021	<0.0005		0.00037 (J)	<0.0005		0.00012 (J)
9/10/2021					0.0012	
9/13/2021		0.00023 (J)				
1/20/2022				<0.0005		<0.0005
1/21/2022					0.0028	
1/24/2022	<0.0005	0.00027 (J)				
1/25/2022			0.00041 (J)			
9/13/2022	<0.0005					
9/14/2022		0.00024 (J)	0.00032 (J)			
9/15/2022					0.0021	0.00029 (J)
9/20/2022				<0.0005		
2/2/2023	<0.0005					
2/6/2023		0.00028 (J)	0.00029 (J)	<0.0005		
2/7/2023					0.0027	0.00059
Mean	0.0004406	0.0002928	0.0003794	0.0003889	0.002072	0.0005806
Std. Dev.	0.0002175	8.365E-05	5.713E-05	0.000218	0.0004254	0.000199
Upper Lim.	0.001	0.0003	0.000414	0.0005	0.00233	0.0006158

# Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 5/4/2023 3:01 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-15	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21
Lower Lim.	0.00013	0.00023	0.0003449	0.00014	0.001815	0.0003591

# Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 5/4/2023 3:01 PM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48
9/1/2016					0.0017	0.0013
9/2/2016	0.0003 (J)					
9/7/2016				0.0007 (J)		
12/8/2016	0.0004 (J)			0.0003 (J)	0.0002 (J)	0.0042
3/28/2017			0.0006 (J)			
3/29/2017	0.0004 (J)					
3/30/2017		0.0002 (J)				0.0089
3/31/2017				0.0009 (J)	0.002	
5/12/2017		0.0003 (J)	0.0006 (J)			
6/15/2017		0.0002 (J)	0.0005 (J)			
7/11/2017			0.0006 (J)			
7/12/2017		0.0002 (J)				
7/13/2017	0.0005 (J)			0.0008 (J)	0.0017	0.0033
10/24/2017			0.0007 (J)			
10/25/2017	0.0007 (J)			0.0005 (J)		
10/26/2017		0.0003 (J)			0.0015	0.0032
2/27/2018			<0.001			
2/28/2018	<0.001			<0.001		
3/1/2018		<0.001			0.0025	
3/2/2018						0.0049
7/11/2018				0.0024		
7/12/2018	0.00091 (J)	0.00028 (J)			0.0021	0.0032
11/6/2018			<0.001 (J)			
11/7/2018	<0.001 (J)			<0.001 (J)	0.0016	0.0031
11/8/2018		<0.001 (J)				
8/27/2019			0.00072 (J)			
8/28/2019				0.0015 (J)		
8/29/2019	0.00053 (J)	0.00022 (J)			0.0021 (J)	0.003
10/15/2019			0.00077 (J)			
10/17/2019				0.00058 (J)	0.0033	
10/18/2019	0.00056 (J)	0.00022 (J)				0.0028
3/2/2020			0.00088 (J)			
3/3/2020	0.00061 (J)					
3/4/2020		0.00024 (J)		0.00037 (J)	0.0017 (J)	0.0036
8/12/2020			0.0008 (J)		0.001 (J)	
8/13/2020		0.00027 (J)		0.0013 (J)		0.0028
8/14/2020	0.00057 (J)					
9/22/2020			0.00065 (J)	0.0007 (J)		
9/23/2020					0.0013 (J)	0.0025
9/24/2020	0.00058 (J)	0.00018 (J)				
3/1/2021			0.00085			
3/3/2021	0.0005	0.00015 (J)		0.00038 (J)	0.0016	0.0033
9/9/2021		0.00019 (J)				
9/10/2021	0.00061		0.0009		0.0014	0.0028
9/13/2021				0.00042 (J)		
1/20/2022	0.00052	0.00012 (J)		0.00038 (J)		
1/21/2022					0.0019	
1/24/2022			0.00098			0.0029
9/13/2022				0.00069	0.0011	0.0026
9/16/2022	0.00065					
9/19/2022			0.00091			
9/20/2022		0.00017 (J)				

# Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 5/4/2023 3:01 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48
2/1/2023				0.00075		
2/3/2023			0.001		0.0013	0.0024
2/6/2023	0.00045 (J)	0.00021 (J)				
Mean	0.0005439	0.0002472	0.0007329	0.0007594	0.001667	0.003378
Std. Dev.	0.0001326	0.000104	0.000169	0.0005182	0.0006508	0.001566
Upper Lim.	0.0006241	0.0002881	0.0008388	0.0009002	0.00206	0.0036
Lower Lim.	0.0004637	0.000185	0.0006271	0.0004679	0.001273	0.0026

# Confidence Interval

Constituent: Cadmium (mg/L)    Analysis Run 5/4/2023 3:01 PM    View: AP 234 Confidence Intervals  
 Plant McDonough    Client: Southern Company    Data: McDonough AP

	DGWC-5	DGWC-8	DGWC-9
8/30/2016		0.0019	0.0004 (J)
8/31/2016	0.0002 (J)		
12/6/2016	0.0004 (J)	0.0025	0.0005 (J)
3/28/2017	0.0002 (J)		0.0005 (J)
3/29/2017		0.0024	
7/11/2017	0.0003 (J)	0.0021	0.0005 (J)
10/24/2017		0.0029	0.0006 (J)
10/25/2017	0.0006 (J)		
2/27/2018	<0.001	0.0029	<0.001
7/11/2018			0.00067 (J)
11/6/2018	<0.001 (J)	0.0027	<0.001 (J)
8/27/2019	0.00082 (J)		0.00071 (J)
8/28/2019		0.0022 (J)	
10/16/2019	0.00069 (J)	0.0022 (J)	
10/17/2019			0.00064 (J)
3/2/2020	0.00089 (J)		
3/3/2020		0.002 (J)	0.00059 (J)
8/11/2020			0.00059 (J)
8/12/2020	0.00079 (J)	0.0021 (J)	
9/22/2020	0.00072 (J)		0.00059 (J)
9/23/2020		0.0018 (J)	
3/2/2021	0.00075	0.0017	0.00057
9/10/2021	0.00093		0.00053
9/13/2021		0.002	
1/24/2022	0.00094		
1/25/2022		0.0016	
1/26/2022			0.00059
9/14/2022	0.00087		
9/15/2022		0.0011	
9/19/2022			0.00076
2/3/2023			0.00053
2/7/2023	0.0012	0.00087	
Mean	0.0006647	0.002057	0.0005706
Std. Dev.	0.0002817	0.0005563	8.734E-05
Upper Lim.	0.0008412	0.002406	0.0006234
Lower Lim.	0.0004882	0.001708	0.0005177

# Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 5/4/2023 3:01 PM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-104D	B-106D	B-109D	B-56
8/17/2020	<0.005					0.0014 (J)
9/25/2020	0.00094 (J)					
9/28/2020						<0.005
12/9/2020			0.0011 (J)			
12/17/2020				<0.005		
1/12/2021		<0.005	<0.005			
1/13/2021					<0.005	
3/3/2021						0.00059 (J)
3/4/2021			<0.005	<0.005		
3/5/2021		<0.005				
3/8/2021	0.00057 (J)				0.00061 (J)	
9/10/2021					<0.005	
9/13/2021	<0.005	0.0014 (J)		<0.005		<0.005
9/14/2021			<0.005			
1/20/2022					<0.005	
1/21/2022	<0.005					
1/24/2022			<0.005			
1/25/2022				<0.005		
1/26/2022		<0.005				
1/27/2022						0.0014 (J)
9/8/2022	<0.005					
9/13/2022			<0.005			
9/16/2022		<0.005		<0.005		<0.005
9/20/2022					<0.005	
2/2/2023	<0.005					
2/3/2023		<0.005	<0.005			
2/6/2023					<0.005	
2/7/2023				0.0013 (J)		<0.005
Mean	0.003787	0.0044	0.004443	0.004383	0.004268	0.003341
Std. Dev.	0.002074	0.00147	0.001474	0.001511	0.001792	0.002086
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.00057	0.0014	0.0011	0.0013	0.00061	0.00059

# Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 5/4/2023 3:01 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
9/8/2022	<0.005					
9/13/2022			<0.005		0.0022 (J)	
9/14/2022		<0.005				
9/16/2022				<0.005		<0.005
2/2/2023	<0.005	<0.005				
2/3/2023					0.0026 (J)	
2/6/2023			<0.005			
2/7/2023				0.0013 (J)		<0.005
Mean	0.004598	0.004377	0.003273	0.00405	0.003488	0.003421
Std. Dev.	0.001271	0.001648	0.002088	0.00176	0.001351	0.001984
Upper Lim.	0.005	0.005	0.005	0.005	0.004919	0.005
Lower Lim.	0.005	0.00064	0.00068	0.0011	0.002056	0.00085



# Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 5/4/2023 3:01 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-93	B-98	DGWC-10	DGWC-11	DGWC-12	DGWC-13
8/31/2016			<0.005	<0.005		
9/1/2016					<0.005	
9/6/2016						<0.005
12/6/2016			<0.005	<0.005		
12/7/2016					<0.005	<0.005
3/29/2017			0.0008 (J)	<0.005	<0.005	
3/30/2017						0.0009 (J)
7/12/2017			0.0006 (J)	<0.005	<0.005	<0.005
10/24/2017			0.0007 (J)	<0.005		
10/25/2017					<0.005	
11/15/2017						<0.005
2/27/2018			<0.005	<0.005	<0.005	
2/28/2018						<0.005
7/11/2018					<0.005	
11/6/2018			<0.005	<0.005		
11/7/2018					<0.005	<0.005
8/27/2019			0.00083 (J)	0.0006 (J)	<0.005	
8/28/2019						<0.005
9/17/2019					<0.005	
10/15/2019			0.00078 (J)	<0.005	<0.005	
10/16/2019						<0.005
3/2/2020				0.0006 (J)	<0.005	
3/3/2020			0.00092 (J)			0.00066 (J)
8/11/2020			0.00097 (J)	0.00061 (J)	0.00094 (J)	
8/12/2020						0.00074 (J)
8/19/2020	0.00057 (J)					
9/22/2020				0.00058 (J)	<0.005	
9/23/2020						0.00059 (J)
9/24/2020			0.001 (J)			
9/28/2020	0.00066 (J)					
3/2/2021				<0.005		<0.005
3/3/2021					0.00099 (J)	
3/4/2021			0.0009 (J)			
3/9/2021	<0.005					
9/9/2021				<0.005	<0.005	<0.005
9/10/2021			<0.005			
9/15/2021	<0.005	<0.005				
1/25/2022				<0.005	<0.005	<0.005
1/26/2022	0.0011 (J)	0.0013 (J)	0.0011 (J)			
9/12/2022	<0.005					
9/13/2022		<0.005				
9/15/2022			<0.005	<0.005	<0.005	<0.005
1/31/2023	<0.005	0.0014 (J)				
2/1/2023						<0.005
2/2/2023			0.0013 (J)			
2/6/2023				<0.005	<0.005	
Mean	0.00319	0.003175	0.002347	0.003964	0.004575	0.003994
Std. Dev.	0.002263	0.002108	0.002025	0.001925	0.001272	0.001871
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.00057	0.0013	0.0008	0.00061	0.00099	0.0009

# Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 5/4/2023 3:01 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-15	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21
9/1/2016			0.0031 (J)			
9/2/2016					0.0017 (J)	<0.005
9/6/2016	<0.005					
9/7/2016		0.0026 (J)				
12/7/2016	<0.005		<0.01		<0.005	
12/8/2016		0.0025 (J)				<0.005
3/29/2017			0.0025 (J)		0.0016 (J)	
3/30/2017	0.0005 (J)	0.0026 (J)		0.0005 (J)		0.0005 (J)
5/11/2017				0.0005 (J)		
6/15/2017				<0.005		
7/11/2017				<0.005		
7/12/2017	<0.005	0.0022 (J)	0.0023 (J)		<0.005	0.0006 (J)
10/24/2017				<0.005		
10/25/2017	<0.005	0.0024 (J)	0.0024 (J)		0.0015 (J)	<0.005
2/27/2018				<0.005		
2/28/2018	<0.005	<0.01	<0.01		<0.005	<0.005
7/11/2018	<0.005	0.0024 (J)	0.0022 (J)	<0.005	<0.005	<0.005
11/6/2018				<0.005		
11/7/2018	<0.01 (J)	<0.01	<0.01 (J)		<0.01 (J)	<0.005
8/27/2019		0.0031 (J)		0.0004 (J)		
8/28/2019	<0.005		0.0028 (J)			
8/29/2019					0.0017 (J)	0.00041 (J)
10/16/2019			0.0024 (J)			
10/17/2019	0.00058 (J)			0.00046 (J)	0.0015 (J)	<0.005
10/18/2019		0.0027 (J)				
3/3/2020	0.00046 (J)		0.0028 (J)	<0.005		0.00048 (J)
3/4/2020		0.0035 (J)			0.0032 (J)	
8/11/2020			0.0024 (J)	0.00067 (J)		
8/13/2020	0.0048 (J)				0.0023 (J)	
8/14/2020		0.0033 (J)				<0.005
9/22/2020			0.003 (J)		0.0013 (J)	
9/23/2020	<0.005			<0.005		
9/24/2020		0.0029 (J)				0.00096 (J)
3/2/2021	<0.005		0.0024 (J)	0.00064 (J)	0.0022 (J)	
3/3/2021		0.0028 (J)				0.002 (J)
9/9/2021	<0.005		0.003 (J)	<0.005		<0.005
9/10/2021					<0.005	
9/13/2021		0.0027 (J)				
1/20/2022				<0.005		<0.005
1/21/2022					0.0021 (J)	
1/24/2022	<0.005	0.0029 (J)				
1/25/2022			0.0029 (J)			
9/13/2022	<0.005					
9/14/2022		0.0023 (J)	0.0024 (J)			
9/15/2022					0.0014 (J)	<0.005
9/20/2022				<0.005		
2/2/2023	<0.005					
2/6/2023		0.0026 (J)	0.0022 (J)	<0.005		
2/7/2023					0.0023 (J)	<0.005
Mean	0.004519	0.002972	0.003822	0.003509	0.003211	0.003608
Std. Dev.	0.002186	0.0008101	0.002857	0.00217	0.002249	0.002052
Upper Lim.	0.01	0.0033	0.0031	0.005	0.005	0.005

# Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 5/4/2023 3:01 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-15	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21
Lower Lim.	0.0048	0.0024	0.0023	0.0005	0.0015	0.0006

# Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 5/4/2023 3:01 PM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48
9/1/2016					<0.005	<0.005
9/2/2016	0.0012 (J)					
9/7/2016				<0.005		
12/8/2016	<0.005			<0.005	<0.005	<0.005
3/28/2017			0.0005 (J)			
3/29/2017	<0.005					
3/30/2017		0.0012 (J)				<0.005
3/31/2017				0.001 (J)	0.0007 (J)	
5/12/2017		0.0004 (J)	<0.005			
6/15/2017		0.0005 (J)	<0.005			
7/11/2017			<0.005			
7/12/2017		0.0007 (J)				
7/13/2017	<0.005			0.0008 (J)	<0.005	0.0007 (J)
10/24/2017			<0.005			
10/25/2017	<0.005			0.0005 (J)		
10/26/2017		0.0007 (J)			<0.005	<0.005
2/27/2018			<0.005			
2/28/2018	<0.005			<0.005		
3/1/2018		<0.005			<0.005	
3/2/2018						<0.005
7/11/2018				<0.005		
7/12/2018	<0.005	<0.005			<0.005	<0.005
11/6/2018			<0.005			
11/7/2018	<0.005			<0.005	<0.005	<0.005
11/8/2018		<0.005				
8/27/2019			<0.005			
8/28/2019				<0.005		
8/29/2019	<0.005	<0.005			<0.005	<0.005
10/15/2019			<0.005			
10/17/2019				0.00041 (J)	<0.005	
10/18/2019	<0.005	0.00041 (J)				<0.005
3/2/2020			<0.005			
3/3/2020	<0.005					
3/4/2020		0.00081 (J)		0.00042 (J)	<0.005	0.0004 (J)
8/12/2020			<0.005		<0.005	
8/13/2020		0.00085 (J)		0.0021 (J)		<0.005
8/14/2020	<0.005					
9/22/2020			<0.005	0.001 (J)		
9/23/2020					<0.005	<0.005
9/24/2020	<0.005	0.00084 (J)				
3/1/2021			<0.005			
3/3/2021	<0.005	0.0014 (J)		<0.005	<0.005	<0.005
9/9/2021		<0.005				
9/10/2021	<0.005		<0.005		<0.005	<0.005
9/13/2021				<0.005		
1/20/2022	<0.005	<0.005		<0.005		
1/21/2022					<0.005	
1/24/2022			<0.005			<0.005
9/13/2022				<0.005	<0.005	<0.005
9/16/2022	<0.005					
9/19/2022			<0.005			
9/20/2022		<0.005				

# Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 5/4/2023 3:01 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48
2/1/2023				<0.005		
2/3/2023			<0.005		<0.005	<0.005
2/6/2023	<0.005	<0.005				
Mean	0.004789	0.002656	0.004735	0.003402	0.004761	0.004506
Std. Dev.	0.0008957	0.00217	0.001091	0.002091	0.001014	0.00144
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.0012	0.0007	0.0005	0.0008	0.0007	0.0007

# Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 5/4/2023 3:01 PM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-5	DGWC-8	DGWC-9
8/30/2016		<0.005	<0.005
8/31/2016	<0.005		
12/6/2016	<0.005	<0.005	<0.005
3/28/2017	<0.005		0.001 (J)
3/29/2017		0.0004 (J)	
7/11/2017	<0.005	<0.005	<0.005
10/24/2017		<0.005	<0.005
10/25/2017	<0.005		
2/27/2018	<0.005	<0.005	<0.005
7/11/2018			<0.005
11/6/2018	<0.005	<0.005	<0.005
8/27/2019	<0.005		0.00048 (J)
8/28/2019		<0.005	
10/16/2019	<0.005	0.0013 (J)	
10/17/2019			0.00051 (J)
3/2/2020	0.00045 (J)		
3/3/2020		0.00061 (J)	0.0057 (J)
8/11/2020			0.00061 (J)
8/12/2020	<0.005	0.0028 (J)	
9/22/2020	<0.005		<0.005
9/23/2020		0.00086 (J)	
3/2/2021	<0.005	0.0015 (J)	0.00059 (J)
9/10/2021	<0.005		<0.005
9/13/2021		<0.005	
1/24/2022	<0.005		
1/25/2022		<0.005	
1/26/2022			0.0029 (J)
9/14/2022	<0.005		
9/15/2022		<0.005	
9/19/2022			<0.005
2/3/2023			0.0013 (J)
2/7/2023	<0.005	<0.005	
Mean	0.004732	0.003675	0.003505
Std. Dev.	0.001104	0.001912	0.002082
Upper Lim.	0.005	0.005	0.005
Lower Lim.	0.00045	0.0013	0.00061

# Confidence Interval

Constituent: Cobalt (mg/L)    Analysis Run 5/4/2023 3:01 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
7/23/2020	0.086					
8/3/2020	0.087					
8/17/2020	0.077					
9/25/2020	0.034					
12/9/2020				0.17		0.0017 (J)
12/17/2020			0.014		0.00087 (J)	
1/11/2021			0.015			
1/12/2021		0.0034 (J)		0.19		
3/4/2021			0.014	0.19	0.0007 (J)	0.0012 (J)
3/5/2021		0.0023 (J)				
3/8/2021	0.029					
9/10/2021			0.013			
9/13/2021	0.035	0.003 (J)			0.00056 (J)	0.00083 (J)
9/14/2021				0.1		
1/21/2022	0.034					
1/24/2022				0.1		0.00088 (J)
1/25/2022					<0.005	
1/26/2022		0.0028 (J)				
1/27/2022			0.014			
9/8/2022	0.028					
9/13/2022				0.14		
9/14/2022						0.00061 (J)
9/15/2022			0.012			
9/16/2022		0.0035 (J)			<0.005	
2/2/2023	<0.005		0.011			
2/3/2023		0.0022 (J)		0.17		
2/6/2023						0.0007 (J)
2/7/2023					<0.005	
Mean	0.04583	0.002867	0.01329	0.1514	0.002855	0.0009867
Std. Dev.	0.02991	0.0005428	0.00138	0.03891	0.002352	0.0004036
Upper Lim.	0.07642	0.003612	0.01493	0.1977	0.005	0.001541
Lower Lim.	0.01578	0.002121	0.01165	0.1052	0.00056	0.0004323

# Confidence Interval

Constituent: Cobalt (mg/L)    Analysis Run 5/4/2023 3:01 PM    View: AP 234 Confidence Intervals  
 Plant McDonough    Client: Southern Company    Data: McDonough AP

	B-108D	B-111D	B-120D	B-56	B-62	B-63
1/28/2019						0.053
1/30/2019					<0.005	
9/11/2019					0.0003 (J)	0.043
10/21/2019					0.00031 (J)	
10/22/2019						0.046
8/13/2020					<0.005	
8/17/2020				0.042		
9/24/2020					<0.005	
9/28/2020				0.042		
12/9/2020	0.0048 (J)	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
4/15/2021			0.017			
9/9/2021					<0.005	
9/13/2021				0.047		
9/14/2021	0.0017 (J)	<0.005	0.0055			0.037
1/20/2022			0.0045 (J)		<0.005	0.039
1/24/2022	0.00061 (J)	0.00041 (J)				
1/27/2022				0.052		
9/8/2022					<0.005	
9/9/2022					<0.005	
9/14/2022		<0.005				0.0465 (D)
9/15/2022	0.001 (J)					
9/16/2022				0.051		
9/19/2022			0.0027 (J)			
2/2/2023					<0.005	0.027
2/3/2023			0.0025 (J)			
2/7/2023	0.001 (J)	0.0004 (J)		0.059		
Mean	0.001802	0.001827	0.00644	0.049	0.004146	0.04219
Std. Dev.	0.001531	0.002172	0.006035	0.006	0.001899	0.007865
Upper Lim.	0.003787	0.005	0.01679	0.05613	0.005	0.05052
Lower Lim.	0.000337	0.0004	0.0003946	0.04187	0.00031	0.03385



# Confidence Interval

Constituent: Cobalt (mg/L)    Analysis Run 5/4/2023 3:01 PM    View: AP 234 Confidence Intervals  
 Plant McDonough    Client: Southern Company    Data: McDonough AP

	B-66	B-77	B-82	B-83	B-88	B-92
1/30/2019	<0.01					
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		
10/24/2019		0.0021 (J)				
11/22/2019					0.018 (J)	
8/13/2020		0.0011 (J)				
8/14/2020				0.021		
8/17/2020			0.0028 (J)		0.0031 (J)	
9/24/2020		0.0004 (J)				
9/25/2020				0.0073	0.0015 (J)	
9/28/2020			0.0053			
3/4/2021		0.0017 (J)		0.0099		
3/5/2021					0.022	
3/12/2021	0.01		0.0021 (J)			
9/13/2021					0.0018 (J)	
9/14/2021	0.012	<0.005	0.0015 (J)			
9/15/2021						0.063
9/16/2021				0.011		
1/20/2022		<0.005				
1/21/2022				0.011		
1/25/2022	0.013		0.0039 (J)			
1/26/2022						0.071
1/27/2022					0.0038 (J)	
9/12/2022						0.073
9/13/2022		<0.005 (D)		0.012		
9/16/2022	0.012 (D)		0.00175 (JD)		0.00135 (JD)	
1/31/2023						0.08
2/3/2023				0.012		
2/6/2023		<0.005				
2/7/2023	0.015		0.0028 (J)		0.0031 (J)	
Mean	0.01005	0.003156	0.00365	0.01278	0.006831	0.07175
Std. Dev.	0.003581	0.001893	0.002304	0.004483	0.008243	0.006994
Upper Lim.	0.01385	0.002581	0.00561	0.01753	0.022	0.08763
Lower Lim.	0.006255	0.0007594	0.001716	0.008023	0.00135	0.05587

# Confidence Interval

Constituent: Cobalt (mg/L)    Analysis Run 5/4/2023 3:01 PM    View: AP 234 Confidence Intervals  
 Plant McDonough    Client: Southern Company    Data: McDonough AP

	B-93	B-97	B-98	DGWC-10	DGWC-11	DGWC-12
8/31/2016				0.193	<0.01	
9/1/2016						0.0021 (J)
12/6/2016				0.2	0.0006 (J)	
12/7/2016						0.0026 (J)
3/29/2017				0.184	<0.01	0.0026 (J)
7/12/2017				0.177	<0.01	0.0033 (J)
10/24/2017				0.175	<0.01	
10/25/2017						0.0021 (J)
2/27/2018				0.2	<0.01	<0.01
7/11/2018						0.002 (J)
11/6/2018				0.2	<0.01	
11/7/2018						<0.01 (J)
8/27/2019				0.13	0.00076 (J)	0.0021 (J)
9/17/2019						0.0079
10/15/2019				0.17	0.0006 (J)	0.0058
12/19/2019	0.066					
2/17/2020			<0.005			
3/2/2020					0.00078 (J)	0.029
3/3/2020				0.18		
8/11/2020				0.11	0.00055 (J)	0.006
8/19/2020	0.068					
9/22/2020					0.00098 (J)	0.013
9/24/2020				0.086		
9/28/2020	0.064					
3/2/2021					0.00065 (J)	
3/3/2021						0.01
3/4/2021				0.071		
3/9/2021	0.061					
3/15/2021			<0.005			
9/9/2021					0.00081 (J)	0.034
9/10/2021				0.076		
9/15/2021	0.062	0.003 (J)	0.0048 (J)			
1/25/2022					0.0015 (J)	0.018
1/26/2022	0.064	0.003 (J)	<0.005	0.099		
9/12/2022	0.057					
9/13/2022		0.0029 (J)	0.00063 (J)			
9/15/2022				0.055	0.001 (J)	0.025
1/31/2023	0.067		<0.005			
2/1/2023		0.0033 (J)				
2/2/2023				0.11		
2/6/2023					0.0013 (J)	0.016
Mean	0.06363	0.00305	0.004238	0.1421	0.00409	0.01008
Std. Dev.	0.003583	0.0001732	0.00177	0.05193	0.004506	0.009901
Upper Lim.	0.06742	0.003443	0.005	0.193	0.01	0.01142
Lower Lim.	0.05983	0.002657	0.00063	0.086	0.00065	0.003676

# Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 5/4/2023 3:01 PM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-13	DGWC-15	DGWC-17	DGWC-19	DGWC-2	DGWC-20
9/1/2016				0.0553		
9/2/2016						0.497
9/6/2016	<0.005	0.0042 (J)				
9/7/2016			0.0247			
12/7/2016	<0.005	0.0028 (J)		0.0561		0.614
12/8/2016			0.029			
3/29/2017				0.0534		0.443
3/30/2017	0.0005 (J)	0.0024 (J)	0.0283		0.0255	
5/11/2017					0.0284	
6/15/2017					0.0238	
7/11/2017					0.0238	
7/12/2017	0.0004 (J)	0.002 (J)	0.023	0.0489		0.538
10/24/2017					0.0292	
10/25/2017		0.0019 (J)	0.0259	0.0514		0.432
11/15/2017	<0.005					
2/27/2018					0.042	
2/28/2018	<0.005	<0.01	0.02	0.0511		0.459
7/11/2018		0.0018 (J)	0.025	0.051	0.02	0.47
11/6/2018					0.024	
11/7/2018	<0.005	0.025	<0.01 (J)	0.048		0.42
8/27/2019			0.031		0.0088	
8/28/2019	<0.005	0.0015 (J)		0.048		
8/29/2019						0.66
10/16/2019	<0.005			0.046		
10/17/2019		0.0018 (J)			0.0084	0.57
10/18/2019			0.023			
3/3/2020	<0.005	0.0018 (J)		0.054	0.0073	
3/4/2020			0.023			0.84
8/11/2020				0.049	0.0064	
8/12/2020	<0.005					
8/13/2020		0.0024 (J)				0.73
8/14/2020			0.026			
9/22/2020				0.051		0.47
9/23/2020	0.00038 (J)	0.0018 (J)			0.0062	
9/24/2020			0.028			
3/2/2021	<0.005	0.0013 (J)		0.051	0.0055	0.77
3/3/2021			0.016			
9/9/2021	<0.005	0.0016 (J)		0.055	0.0048 (J)	
9/10/2021						0.45
9/13/2021			0.019			
1/20/2022					0.004 (J)	
1/21/2022						0.95
1/24/2022		0.0015 (J)	0.019			
1/25/2022	<0.005			0.054		
9/13/2022		0.0016 (J)				
9/14/2022			0.016	0.052		
9/15/2022	<0.005					0.75
9/20/2022					0.0028 (J)	
2/1/2023	<0.005					
2/2/2023		0.0017 (J)				
2/6/2023			0.017	0.055	0.0024 (J)	
2/7/2023						1

# Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 5/4/2023 3:01 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-13	DGWC-15	DGWC-17	DGWC-19	DGWC-2	DGWC-20
Mean	0.004193	0.00345	0.02216	0.05168	0.01518	0.6146
Std. Dev.	0.001797	0.005464	0.006248	0.002916	0.01187	0.1855
Upper Lim.	0.005	0.0028	0.02594	0.05344	0.02052	0.7103
Lower Lim.	0.0005	0.0016	0.01838	0.04991	0.007091	0.4987

# Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 5/4/2023 3:01 PM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47
9/1/2016						0.536
9/2/2016	0.0085 (J)	0.0102				
9/7/2016					0.0695	
12/8/2016	0.0095 (J)	0.0079 (J)			0.0652	0.381
3/28/2017				0.0018 (J)		
3/29/2017		0.0097 (J)				
3/30/2017	0.0076 (J)		<0.005			
3/31/2017					0.0524	0.354
5/12/2017			<0.005	0.0015 (J)		
6/15/2017			0.0003 (J)	0.0015 (J)		
7/11/2017				0.0015 (J)		
7/12/2017	0.0092 (J)		<0.005			
7/13/2017		0.0106			0.0481	0.396
10/24/2017				0.0017 (J)		
10/25/2017	0.0092 (J)	0.0094 (J)			0.0435	
10/26/2017			<0.005			0.383
2/27/2018				<0.01		
2/28/2018	<0.01	<0.01			0.0167	
3/1/2018			<0.005			0.401
7/11/2018	0.0097 (J)				0.019	
7/12/2018		0.011	<0.005			0.36
11/6/2018				<0.01 (J)		
11/7/2018	<0.01 (J)	<0.01 (J)			0.02	0.35
11/8/2018			<0.01 (J)			
8/27/2019				0.0018 (J)		
8/28/2019					0.029	
8/29/2019	0.01	0.0094	0.00036 (J)			0.28
10/15/2019				0.0018 (J)		
10/17/2019	0.01				0.03	0.26
10/18/2019		0.0084	<0.005			
3/2/2020				0.0021 (J)		
3/3/2020	0.01	0.0098				
3/4/2020			0.00043 (J)		0.014	0.28
8/12/2020				0.0018 (J)		0.21
8/13/2020			0.00048 (J)		0.025	
8/14/2020	0.0098	0.0087				
9/22/2020				0.0014 (J)	0.014	
9/23/2020						0.17
9/24/2020	0.01	0.01	<0.005			
3/1/2021				0.002 (J)		
3/3/2021	0.0087	0.0078	0.00039 (J)		0.0087	0.2
9/9/2021	0.0096		0.00049 (J)			
9/10/2021		0.0076		0.0019 (J)		0.23
9/13/2021					0.008	
1/20/2022	0.0076	0.0075	0.00058 (J)		0.0056	
1/21/2022						0.24
1/24/2022				0.0019 (J)		
9/13/2022					0.0069	0.21
9/15/2022	0.0081					
9/16/2022		0.0098				
9/19/2022				0.0018 (J)		
9/20/2022			0.00053 (J)			

# Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 5/4/2023 3:01 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47
2/1/2023					0.0068	
2/3/2023				0.0018 (J)		0.21
2/6/2023		0.0058	0.00064 (J)			
2/7/2023	0.0088					
Mean	0.008683	0.008533	0.003011	0.002135	0.0268	0.3028
Std. Dev.	0.001555	0.001827	0.002858	0.001094	0.02053	0.09687
Upper Lim.	0.00959	0.009638	0.005	0.002	0.03593	0.3614
Lower Lim.	0.00827	0.007428	0.00043	0.0015	0.01335	0.2442

# Confidence Interval

Constituent: Cobalt (mg/L)    Analysis Run 5/4/2023 3:01 PM    View: AP 234 Confidence Intervals  
 Plant McDonough    Client: Southern Company    Data: McDonough AP

	DGWC-48	DGWC-5	DGWC-8	DGWC-9
8/30/2016			0.0568	0.0896
8/31/2016		0.055		
9/1/2016	0.539			
12/6/2016		0.0432	0.0873	0.122
12/8/2016	0.575			
3/28/2017		0.04		0.124
3/29/2017			0.0902	
3/30/2017	0.573			
7/11/2017		0.0351 (J)	0.0601	0.136
7/13/2017	0.531			
10/24/2017			0.123	0.151
10/25/2017		0.0209		
10/26/2017	0.482			
2/27/2018		0.024	0.126	0.163
3/2/2018	0.49			
7/11/2018				0.18
7/12/2018	0.46			
11/6/2018		0.019	0.077	0.2
11/7/2018	0.48			
8/27/2019		0.02		0.24
8/28/2019			0.051	
8/29/2019	0.42			
10/16/2019		0.022	0.054	
10/17/2019				0.21
10/18/2019	0.41			
3/2/2020		0.028		
3/3/2020			0.044	0.2
3/4/2020	0.42			
8/11/2020				0.22
8/12/2020		0.021	0.053	
8/13/2020	0.35			
9/22/2020		0.02		0.16
9/23/2020	0.37		0.04	
3/2/2021		0.021	0.033	0.18
3/3/2021	0.36			
9/10/2021	0.36	0.022		0.21
9/13/2021			0.028	
1/24/2022	0.34	0.025		
1/25/2022			0.019	
1/26/2022				0.22
9/13/2022	0.31			
9/14/2022		0.027		
9/15/2022			0.0046 (J)	
9/19/2022				0.25
2/3/2023	0.31			0.21
2/7/2023		0.021	0.0018 (J)	
Mean	0.4322	0.02731	0.05581	0.1814
Std. Dev.	0.08761	0.01016	0.03597	0.04426
Upper Lim.	0.4852	0.0351	0.07835	0.2082
Lower Lim.	0.3792	0.0209	0.03328	0.1546

# Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/4/2023 3:01 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	1.4 (U)					
9/25/2020	0.799 (U)					
12/9/2020				15.2		1.49
12/17/2020			1.22 (U)		0.952 (U)	
1/11/2021			0.635 (U)			
1/12/2021		1.91		17		
3/4/2021			0.789 (U)	14.5	0.681 (U)	2.14
3/5/2021		2.17				
3/8/2021	0.168 (U)					
9/10/2021			1.74			
9/13/2021	0.774 (U)	1.8			0.625 (U)	0.813 (U)
9/14/2021				9.6		
1/21/2022	0.769 (U)					
1/24/2022				11.9		1.14 (U)
1/25/2022					0.454 (U)	
1/26/2022		1.21				
1/27/2022			0.628 (U)			
9/8/2022	0.643 (U)					
9/13/2022				9.12		
9/14/2022						0.737 (U)
9/15/2022			0.61 (U)			
9/16/2022		1.64			0.655 (U)	
2/2/2023	0.981		0.676 (U)			
2/3/2023		0.426 (U)		14.8		
2/6/2023						0.459 (U)
2/7/2023					0.642 (U)	
Mean	0.7906	1.526	0.8997	13.16	0.6682	1.13
Std. Dev.	0.3692	0.6261	0.4279	2.999	0.1608	0.6091
Upper Lim.	1.229	2.386	1.74	16.72	0.8891	1.967
Lower Lim.	0.352	0.6659	0.61	9.597	0.4472	0.2931



# Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/4/2023 3:01 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-108D	B-109D	B-111D	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	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)
4/15/2021				2.31		
9/9/2021						1.7
9/10/2021		9.45				
9/13/2021					0.854 (U)	
9/14/2021	0.917 (U)		4.39	3.68		
1/20/2022		16.2		1.21 (U)		1.71
1/24/2022	0.812 (U)		5.68			
1/27/2022					0.831 (U)	
9/9/2022						1.96
9/14/2022			6.23			
9/15/2022	1.36					
9/16/2022					0.752 (U)	
9/19/2022				2.22		
9/20/2022		16.5				
2/2/2023						1.6
2/3/2023				1.81		
2/6/2023		17.7				
2/7/2023	0.975		6.24		1.01 (U)	
Mean	1.232	13.96	7.646	2.246	0.9996	1.65
Std. Dev.	0.4439	3.284	2.769	0.9117	0.2184	0.2725
Upper Lim.	1.842	18.47	10.94	3.774	1.259	1.913
Lower Lim.	0.6226	9.447	4.356	0.7183	0.7402	1.387

# Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L)    Analysis Run 5/4/2023 3:01 PM    View: AP 234 Confidence Intervals

Plant McDonough    Client: Southern Company    Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88
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
9/24/2020			0.761 (U)			
9/25/2020					0.0359 (U)	0.925 (U)
9/28/2020				0.747 (U)		
3/4/2021			2.16		1.15 (U)	
3/5/2021						2.84
9/13/2021						0.771 (U)
9/14/2021	1.68	0.421 (U)	0.617 (U)	1.03 (U)		
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)		
1/27/2022						1.18
9/13/2022			1.11		0.893 (U)	
9/14/2022	1.61					
9/16/2022		0.832 (U)		0.694 (U)		1.25
2/2/2023	1.01					
2/3/2023					0.279 (U)	
2/6/2023			0.747 (U)			
2/7/2023		0.764 (U)		0.776 (U)		1.77
Mean	1.428	0.677	1.294	0.6956	0.6364	1.601
Std. Dev.	0.4773	0.3997	0.6617	0.2082	0.3753	0.7922
Upper Lim.	2.083	1.226	1.985	0.9428	1.034	2.542
Lower Lim.	0.772	0.128	0.6539	0.4483	0.2386	0.6599

# Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/4/2023 3:01 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-92	B-93	B-97	B-98	DGWC-10	DGWC-11
8/31/2016					1.08	1.09
12/6/2016					1.31	0.409 (U)
3/29/2017					1.24	0.727
7/12/2017					0.831	0.85 (U)
10/24/2017					0.838 (U)	0.98 (U)
2/27/2018					1.55	1.14
7/10/2018					1.65	0.495 (U)
11/6/2018					1.46	1.41
8/27/2019					1.58	2.13
10/15/2019					0.831 (U)	0.622 (U)
3/2/2020						1.3
3/3/2020					1.69	
8/11/2020					1.45	1.02
8/19/2020		1.19 (U)				
9/22/2020						0.502 (U)
9/24/2020					1.39	
9/28/2020		1.54				
3/2/2021						0.666 (U)
3/4/2021					1.48	
3/9/2021		0.786 (U)				
9/9/2021						1.2 (U)
9/10/2021					0.882 (U)	
9/15/2021	1.39	1.84	2.11	2.2		
1/25/2022						0.983 (U)
1/26/2022	1.27 (U)	0.758 (U)	1.47 (U)	0.52 (U)	1.21	
9/12/2022	2.34	1.09				
9/13/2022			1.11	2.03		
9/15/2022					0.953	1.12
1/31/2023	2.04	1.68		0.873 (U)		
2/1/2023			1.33			
2/2/2023					1.47	
2/6/2023						0.442 (U)
Mean	1.76	1.269	1.505	1.406	1.272	0.9492
Std. Dev.	0.5137	0.4284	0.4297	0.8344	0.2998	0.4261
Upper Lim.	2.926	1.778	2.481	3.3	1.453	1.207
Lower Lim.	0.5936	0.7603	0.5295	-0.4887	1.091	0.6914

# Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/4/2023 3:01 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016			0.997 (U)			
9/1/2016	1.11					1.07 (U)
9/6/2016		1.32		0.731 (U)		
9/7/2016					1.17	
12/6/2016			0.659 (U)			
12/7/2016	2.66	1.76		1.73		0.903 (U)
12/8/2016					1.65	
3/29/2017	0.0726 (U)		0.313 (U)			0.302 (U)
3/30/2017		1.59		0.276 (U)	0.865 (U)	
7/12/2017	0.538 (U)	1.36	1.03 (U)	0.584 (U)	0.362 (U)	0.283 (U)
10/25/2017	0.216 (U)		0.607 (U)	0.454 (U)	0.401 (U)	0.927 (U)
11/15/2017		1.08 (U)				
2/27/2018	0.83		0.695 (U)			
2/28/2018		0.721 (U)		1.25	1.1 (U)	0.813 (U)
7/10/2018		0.746 (U)				
7/11/2018	0.728 (U)		1.04 (U)	2.13	0.64 (U)	0.751 (U)
11/7/2018	0.414 (U)	1.22 (U)	0.593 (U)	0.786 (U)	0.795 (U)	1.02
8/27/2019	0.434 (U)		1.17 (U)		1.12	
8/28/2019		1.43		1.01 (U)		0.661 (U)
10/15/2019	0.359 (U)					
10/16/2019		1.73	1.04 (U)			1.79
10/17/2019				1.03 (U)		
10/18/2019					0.89 (U)	
3/2/2020	1.2 (U)					
3/3/2020		1.03	1.44	0.293 (U)		0.383 (U)
3/4/2020					0.493 (U)	
8/11/2020	0.77 (U)		1.17 (U)			0.723 (U)
8/12/2020		1.63				
8/13/2020				3.58		
8/14/2020					0.804 (U)	
9/22/2020	0.515 (U)		1.2 (U)			0.96 (U)
9/23/2020		0.935 (U)		1.69 (U)		
9/24/2020					0.369 (U)	
3/2/2021		1.12 (U)	0.861 (U)	0.599 (U)		0.775 (U)
3/3/2021	1.85				0.66 (U)	
9/9/2021	1.78	1.23 (U)	0.643 (U)	0.624 (U)		0.239 (U)
9/13/2021					0.85 (U)	
1/24/2022				0.534 (U)	0.692 (U)	
1/25/2022	0.739 (U)	0.254 (U)	0.229 (U)			0.415 (U)
9/13/2022			0.538 (U)	0.761 (U)		
9/14/2022					0.489 (U)	0.674 (U)
9/15/2022	0.52 (U)	1.01				
2/1/2023		0.819 (U)	0.794 (U)			
2/2/2023				0.991		
2/6/2023	1 (U)				0.809 (U)	1.23
Mean	0.8742	1.166	0.8344	1.059	0.7866	0.7733
Std. Dev.	0.6556	0.3938	0.3254	0.8093	0.3297	0.3852
Upper Lim.	1.164	1.404	1.031	1.395	0.9861	1.006
Lower Lim.	0.4554	0.9276	0.6375	0.5849	0.5871	0.5402

# Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/4/2023 3:01 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4
9/2/2016		1.48	0.908 (U)	1.54		
12/7/2016		1.26 (U)				
12/8/2016			1.03 (U)	0.505 (U)		
3/28/2017						1.36
3/29/2017		0.373 (U)		0.715 (U)		
3/30/2017	0.737 (U)		0.884 (U)		0.297 (U)	
5/11/2017	0.892 (U)					
5/12/2017					0.693 (U)	1.15
6/15/2017	0.979 (U)				0.435 (U)	0.765 (U)
7/11/2017	0.871 (U)					1.13
7/12/2017		0.91 (U)	1.22		0.703 (U)	
7/13/2017				1.14		
10/24/2017	1.19					1.24
10/25/2017		0.853 (U)	1.07 (U)	1.6		
10/26/2017					0.984 (U)	
2/27/2018	0.863 (U)					1.82
2/28/2018		0.727 (U)	1.45	0.918 (U)		
3/1/2018					0.743 (U)	
7/10/2018						1.37
7/11/2018	0.663 (U)	1.3	1.59			
7/12/2018				0.981 (U)	0.918 (U)	
11/6/2018	0.664					1.2
11/7/2018		0.746 (U)	1.16	0.832 (U)		
11/8/2018					1.47	
8/27/2019	1.6					1.79
8/29/2019		0.996 (U)	0.582 (U)	1.87	2.21	
10/15/2019						2.11 (U)
10/17/2019	1.74	2	0.427 (U)			
10/18/2019				1.1 (U)	1.32	
3/2/2020						1.99
3/3/2020	1.23		0.567 (U)	0.517 (U)		
3/4/2020		1.67			1.39	
8/11/2020	1.37					
8/12/2020						1.95
8/13/2020		1.77			1.48 (U)	
8/14/2020			0.602 (U)	1.83		
9/22/2020		1.61 (U)				1.43 (U)
9/23/2020	1.96 (U)					
9/24/2020			0.396 (U)	1.02 (U)	1.49	
3/1/2021						1.05 (U)
3/2/2021	1.54 (U)	1.76				
3/3/2021			0.248 (U)	0.547 (U)	1.05 (U)	
9/9/2021	1.22 (U)		0.702 (U)		1.81	
9/10/2021		0.689 (U)		0.616 (U)		1.46
1/20/2022	0.722 (U)		0.337 (U)	0.298 (U)	0.61 (U)	
1/21/2022		0.826 (U)				
1/24/2022						0.944 (U)
9/15/2022		1.38	0.771 (U)			
9/16/2022				1.01		
9/19/2022						1.55
9/20/2022	0.45 (U)				1.17 (U)	
2/3/2023						1.51

# Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/4/2023 3:01 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-2	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4
2/6/2023	0.5 (U)			0.975	1.44	
2/7/2023		1.92	0.582 (U)			
Mean	1.066	1.237	0.807	1.001	1.123	1.434
Std. Dev.	0.4399	0.4879	0.3848	0.4582	0.4994	0.3787
Upper Lim.	1.332	1.532	1.04	1.278	1.425	1.664
Lower Lim.	0.8	0.942	0.5742	0.7236	0.8208	1.205

# Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/4/2023 3:01 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					0.919 (U)	1.33
8/31/2016				2.49		
9/1/2016		4.47	2.37			
9/7/2016	0.876 (U)					
12/6/2016				0.348 (U)	0.407 (U)	0.828 (U)
12/8/2016	0.955	2.88	2.87			
3/28/2017				0.693 (U)		1.06
3/29/2017					0.28 (U)	
3/30/2017			1.71			
3/31/2017	0.102 (U)	1.14				
7/11/2017				1.38	0.209 (U)	0.62 (U)
7/13/2017	1.08 (U)	2.37	1.78			
10/24/2017					0.615 (U)	1.21
10/25/2017	1.46			2.06		
10/26/2017		2.88	3.74			
2/27/2018				1.97	1.05 (U)	1.79
2/28/2018	0.882 (U)					
3/1/2018		2.21				
3/2/2018			2.26			
7/10/2018				1.03 (U)	0.363 (U)	
7/11/2018	0.924 (U)					1.81
7/12/2018		1.73	1.81			
11/6/2018				1.13	0.577 (U)	1.13
11/7/2018	0.654 (U)	1.72	1.94			
8/27/2019				1.81		1.55
8/28/2019	0.883 (U)				0.815 (U)	
8/29/2019		3.05	2.37			
10/16/2019				1.63	0.999 (U)	
10/17/2019	1.38	2.58				0.702 (U)
10/18/2019			1.42			
3/2/2020				2.28		
3/3/2020					0.481 (U)	1.37
3/4/2020	0.722 (U)	1.68	1.31			
8/11/2020						0.819 (U)
8/12/2020		2.56		1.13	0.721 (U)	
8/13/2020	1.23 (U)		1.74			
9/22/2020	1.03 (U)			1.4 (U)		1.15 (U)
9/23/2020		2.3 (U)	1.51 (U)		0.8 (U)	
3/2/2021				0.971 (U)	0.751 (U)	1.29 (U)
3/3/2021	0.92 (U)	1.27 (U)	1.41			
9/10/2021		2.32	2.21	1.15		1.28
9/13/2021	1.15 (U)				0.916 (U)	
1/20/2022	0.0465 (U)					
1/21/2022		0.785 (U)				
1/24/2022			0.668 (U)	0.807 (U)		
1/25/2022					0.356 (U)	
1/26/2022						0.789 (U)
9/13/2022	0.829 (U)	1.97	1.42			
9/14/2022				0.665 (U)		
9/15/2022					0.896	
9/19/2022						1.38
2/1/2023	0.599 (U)					

# Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/4/2023 3:01 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
2/3/2023		1.8	1.4			0.949 (U)
2/7/2023				1.26	0.737 (U)	
Mean	0.8735	2.206	1.885	1.345	0.6607	1.17
Std. Dev.	0.3686	0.842	0.6879	0.5909	0.2601	0.3469
Upper Lim.	1.097	2.716	2.302	1.702	0.818	1.38
Lower Lim.	0.6504	1.697	1.469	0.9871	0.5033	0.9599



# Confidence Interval

Constituent: Fluoride (mg/L)    Analysis Run 5/4/2023 3:01 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	<0.1					
9/25/2020	<0.1					
12/9/2020				0.33		<0.1
12/17/2020			0.079 (J)		0.052 (J)	
1/11/2021			0.077 (J)			
1/12/2021		0.052 (J)		0.36		
3/4/2021			0.11	0.43	0.055 (J)	<0.1
3/5/2021		0.053 (J)				
3/8/2021	<0.1					
9/10/2021			0.083 (J)			
9/13/2021	<0.1	0.051 (J)			0.052 (J)	<0.1
9/14/2021				0.5		
1/21/2022	<0.1					
1/24/2022				0.28		<0.1
1/25/2022					<0.1	
1/26/2022		<0.1				
1/27/2022			0.062 (J)			
9/8/2022	0.072 (J)					
9/13/2022				0.35		
9/14/2022						0.053 (J)
9/15/2022			0.11			
9/16/2022		0.099 (J)			0.08 (J)	
2/2/2023	0.052 (J)		0.091 (J)			
2/3/2023		0.11		0.36		
2/6/2023						<0.1
2/7/2023					0.067 (J)	
Mean	0.08914	0.0775	0.08743	0.3729	0.06767	0.09217
Std. Dev.	0.01942	0.0282	0.01769	0.07158	0.01923	0.01919
Upper Lim.	0.1	0.1061	0.1084	0.4579	0.07618	0.1
Lower Lim.	0.052	-0.08661	0.06642	0.2878	0.04622	0.053

# Confidence Interval

Constituent: Fluoride (mg/L)    Analysis Run 5/4/2023 3:01 PM    View: AP 234 Confidence Intervals  
 Plant McDonough    Client: Southern Company    Data: McDonough AP

	B-108D	B-109D	B-111D	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	<0.1		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
4/15/2021				<0.1		
9/9/2021						0.14
9/10/2021		0.15				
9/13/2021					0.2	
9/14/2021	<0.1		0.57	<0.1		
1/20/2022		0.11		<0.1		0.099 (J)
1/24/2022	<0.1		0.38			
1/27/2022					0.21	
9/8/2022						0.13
9/14/2022			0.38			
9/15/2022	0.061 (J)					
9/16/2022					0.22	
9/19/2022				0.057 (J)		
9/20/2022		0.15				
2/2/2023						0.16
2/3/2023				0.052 (J)		
2/6/2023		0.14				
2/7/2023	<0.1		0.36		0.19	
Mean	0.0935	0.1433	0.4071	0.0818	0.2069	0.1669
Std. Dev.	0.01592	0.01966	0.09517	0.02498	0.07115	0.1072
Upper Lim.	0.1	0.1703	0.5184	0.1	0.2914	0.43
Lower Lim.	0.061	0.1163	0.3016	0.052	0.1223	0.093

# Confidence Interval

Constituent: Fluoride (mg/L)    Analysis Run 5/4/2023 3:01 PM    View: AP 234 Confidence Intervals  
 Plant McDonough    Client: Southern Company    Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88
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
9/24/2020			<0.1			
9/25/2020					<0.1	<0.1
9/28/2020				<0.1		
3/4/2021			<0.1		0.071 (J)	
3/5/2021						<0.1
9/13/2021						<0.1
9/14/2021	0.16	0.22	0.078 (J)	0.052 (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		
1/27/2022						<0.1
9/13/2022			0.08 (J)		0.081 (J)	
9/14/2022	0.14					
9/16/2022		0.18		0.079 (J)		0.054 (J)
2/2/2023	0.13					
2/3/2023					0.12	
2/6/2023			0.069 (J)			
2/7/2023		0.12		0.086 (J)		<0.1
Mean	0.2	0.2417	0.09038	0.1024	0.08975	0.09343
Std. Dev.	0.1257	0.1478	0.01265	0.04637	0.02756	0.01739
Upper Lim.	0.45	0.4448	0.1	0.1399	0.1102	0.1
Lower Lim.	0.12	0.03858	0.069	0.04502	0.05284	0.054

# Confidence Interval

Constituent: Fluoride (mg/L)    Analysis Run 5/4/2023 3:01 PM    View: AP 234 Confidence Intervals  
 Plant McDonough    Client: Southern Company    Data: McDonough AP

	B-92	B-93	B-97	B-98	DGWC-10	DGWC-11
8/31/2016					1	0.06 (J)
12/6/2016					1.3	0.06 (J)
3/29/2017					1.5	0.04 (J)
7/12/2017					1.7	0.03 (J)
10/24/2017					2.1	<0.1
11/15/2017					1.4	
2/27/2018					2.3	<0.1
11/6/2018					2	<0.1
3/12/2019					1.7	0.052 (J)
8/27/2019					1.4	<0.1
10/15/2019					1.4	<0.1
3/2/2020						0.064 (J)
3/3/2020					1.5	
8/11/2020					1.4	<0.1
8/19/2020		0.32				
9/22/2020						<0.1
9/24/2020					0.97	
9/28/2020		0.3				
3/2/2021						<0.1
3/4/2021					1.8	
3/9/2021		0.34				
9/9/2021						<0.1
9/10/2021					2.2	
9/15/2021	0.18	0.34	0.085 (J)	0.098 (J)		
1/25/2022						<0.1
1/26/2022	0.3	0.41	0.088 (J)	0.13	1.8	
9/12/2022	0.24	0.4				
9/13/2022			0.14	0.18		
9/15/2022					0.84	0.064 (J)
1/31/2023	0.2	0.4		0.19		
2/1/2023			0.11			
2/2/2023					1.1	
2/6/2023						<0.1
Mean	0.23	0.3586	0.1058	0.1495	1.548	0.08167
Std. Dev.	0.05292	0.04413	0.02541	0.04322	0.4192	0.02491
Upper Lim.	0.3501	0.411	0.1634	0.2476	1.793	0.1
Lower Lim.	0.1099	0.3062	0.04806	0.05138	1.302	0.06

# Confidence Interval

Constituent: Fluoride (mg/L)    Analysis Run 5/4/2023 3:01 PM    View: AP 234 Confidence Intervals  
 Plant McDonough    Client: Southern Company    Data: McDonough AP

	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016			0.06 (J)			
9/1/2016	0.02 (J)					0.75
9/6/2016		0.17 (J)		0.11 (J)		
9/7/2016					0.32	
12/6/2016			0.1 (J)			
12/7/2016	0.16 (J)	0.3		0.11 (J)		0.37
12/8/2016					0.31	
3/29/2017	0.1 (J)		0.02 (J)			0.35
3/30/2017		0.12 (J)		<0.1	0.1 (J)	
7/12/2017	0.2 (J)	0.13 (J)	<0.1	0.07 (J)	0.27 (J)	0.34
10/25/2017	0.6		<0.1	0.26 (J)	0.49	0.9
11/15/2017		0.44				
2/27/2018	0.34		<0.1			
2/28/2018		0.18		<0.1	0.54	1.2
7/11/2018	<0.1		<0.1	<0.1	0.15 (J)	0.37
11/7/2018	<0.3 (J)	<0.3 (J)	<0.1	<0.1	<0.3 (J)	<0.3 (J)
3/12/2019	0.065 (J)					
3/13/2019		0.13 (J)	0.042 (J)		0.084 (J)	0.22 (J)
3/14/2019				0.057 (J)		
8/27/2019	<0.1		<0.1		0.24 (J)	
8/28/2019		0.091 (J)		<0.1		0.2
10/15/2019	<0.1					
10/16/2019		0.14 (J)	0.052 (J)			0.23 (J)
10/17/2019				0.079 (J)		
10/18/2019					0.086 (J)	
3/2/2020	0.071 (J)					
3/3/2020		0.078 (J)	<0.1	<0.1		0.056 (J)
3/4/2020					<0.1	
8/11/2020	<0.1		<0.1			0.2
8/12/2020		0.051 (J)				
8/13/2020				<0.1		
8/14/2020					0.069 (J)	
9/22/2020	<0.1		<0.1			0.084 (J)
9/23/2020		0.058 (J)		<0.1		
9/24/2020					0.056 (J)	
3/2/2021		0.084 (J)	<0.1	<0.1		0.19
3/3/2021	0.085 (J)				0.085 (J)	
9/9/2021	0.099 (J)	0.083 (J)	<0.1	<0.1		0.18
9/13/2021					0.063 (J)	
1/24/2022				<0.1	<0.1	
1/25/2022	0.093 (J)	0.063 (J)	<0.1			0.16
9/13/2022			0.059 (J)	0.065 (J)		
9/14/2022					0.1	0.18
9/15/2022	0.078 (J)	0.095 (J)				
2/1/2023		0.09 (J)	0.067 (J)			
2/2/2023				0.065 (J)		
2/6/2023	0.1				0.096 (J)	0.22
Mean	0.1479	0.1363	0.08421	0.1008	0.1873	0.3342
Std. Dev.	0.1347	0.09588	0.0255	0.04178	0.1471	0.2973
Upper Lim.	0.2	0.1616	0.1	0.11	0.31	0.3904
Lower Lim.	0.078	0.08268	0.059	0.07	0.084	0.1621

# Confidence Interval

Constituent: Fluoride (mg/L)    Analysis Run 5/4/2023 3:01 PM    View: AP 234 Confidence Intervals  
 Plant McDonough    Client: Southern Company    Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4
9/2/2016		0.66	0.07 (J)	0.3		
12/7/2016		0.66				
12/8/2016			0.14 (J)	0.12 (J)		
3/28/2017						0.17 (J)
3/29/2017		0.34		0.11 (J)		
3/30/2017	0.06 (J)		<0.1		0.12 (J)	
5/11/2017	0.06 (J)					
5/12/2017					0.36	<0.1
6/15/2017	0.07 (J)				0.21 (J)	0.02 (J)
7/11/2017	0.04 (J)					0.02 (J)
7/12/2017		0.41	0.04 (J)		0.22 (J)	
7/13/2017				0.09 (J)		
10/24/2017	0.43					<0.1
10/25/2017		0.68	0.34	0.25 (J)		
10/26/2017					0.66	
11/15/2017						0.79
2/27/2018	0.28					<0.1
2/28/2018		0.76	<0.1	<0.1		
3/1/2018					0.18	
7/11/2018	0.6	1.3	<0.1			
7/12/2018				0.13 (J)	0.25 (J)	
11/6/2018	<0.1					<0.1
11/7/2018		<0.3 (J)	<0.1	<0.1		
11/8/2018					<0.3 (J)	
3/12/2019	0.052 (J)					0.082 (J)
3/13/2019		0.45	0.043 (J)			
3/14/2019				0.042 (J)	0.092 (J)	
8/27/2019	<0.1					<0.1
8/29/2019		0.78	0.079 (J)	0.054 (J)	0.095 (J)	
10/15/2019						<0.1
10/17/2019	0.042 (J)	0.26 (J)	<0.1			
10/18/2019				<0.1	0.079 (J)	
3/2/2020						<0.1
3/3/2020	<0.1		<0.1	<0.1		
3/4/2020		1.5			0.075 (J)	
8/11/2020	<0.1					
8/12/2020						<0.1
8/13/2020		0.9			0.1	
8/14/2020			<0.1	<0.1		
9/22/2020		0.15				<0.1
9/23/2020	<0.1					
9/24/2020			<0.1	<0.1	0.075 (J)	
3/1/2021						<0.1
3/2/2021	<0.1	1.4				
3/3/2021			<0.1	<0.1	0.063 (J)	
9/9/2021	0.053 (J)		<0.1		0.084 (J)	
9/10/2021		0.25		<0.1		<0.1
1/20/2022	<0.1		<0.1	<0.1	<0.1	
1/21/2022		1.3				
1/24/2022						<0.1
9/15/2022		0.69	0.087 (J)			
9/16/2022				0.068 (J)		

# Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 5/4/2023 3:01 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-2	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4
9/19/2022						0.061 (J)
9/20/2022	0.076 (J)				0.11	
2/3/2023						0.096 (J)
2/6/2023	0.072 (J)			0.057 (J)	0.076 (J)	
2/7/2023		1.1	0.059 (J)			
Mean	0.1334	0.7232	0.1031	0.1116	0.1605	0.1284
Std. Dev.	0.1466	0.4302	0.06194	0.06226	0.1446	0.1634
Upper Lim.	0.28	0.975	0.14	0.12	0.1847	0.17
Lower Lim.	0.053	0.4713	0.07	0.068	0.08543	0.082

# Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 5/4/2023 3:01 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					0.39	0.78
8/31/2016				1		
9/1/2016		1.8	1.5			
9/7/2016	0.02 (J)					
12/6/2016				0.76	0.47	1.1
12/8/2016	0.06 (J)	1.1	1.6			
3/28/2017				1.2		1.1
3/29/2017					0.51	
3/30/2017			0.86			
3/31/2017	<0.1	0.88				
7/11/2017				0.7	0.2 (J)	1.1
7/13/2017	<0.1	0.84	1.1			
10/24/2017					0.82	1.7
10/25/2017	<0.1			1.4		
10/26/2017		1	1.7			
2/27/2018				1.3	0.59	1.2
2/28/2018	<0.1					
3/1/2018		1.4				
3/2/2018			1.1			
7/11/2018	<0.1					1.3
7/12/2018		0.96	0.65			
11/6/2018				<0.3 (J)	0.35	1.1
11/7/2018	<0.1	0.74	0.63			
3/12/2019				0.31	0.35	0.97
3/14/2019	<0.1	1.6	1.4			
8/27/2019				0.32		0.68
8/28/2019	<0.1				0.098 (J)	
8/29/2019		0.52	0.78			
10/16/2019				0.32	0.14 (J)	
10/17/2019	<0.1	0.46				1.2
10/18/2019			0.46			
3/2/2020				0.33		
3/3/2020					<0.1	1.4
3/4/2020	<0.1	0.74	0.7			
8/11/2020						1.3
8/12/2020		0.22		0.13	0.056 (J)	
8/13/2020	<0.1		0.47			
9/22/2020	<0.1			0.12		0.99
9/23/2020		0.11	0.32		<0.1	
3/2/2021				0.15	0.059 (J)	0.93
3/3/2021	<0.1	0.71	0.67			
9/10/2021		0.22	0.47	0.16		2
9/13/2021	<0.1				0.069 (J)	
1/20/2022	<0.1					
1/21/2022		0.64				
1/24/2022			0.59	0.19		
1/25/2022					<0.1	
1/26/2022						1.2
9/13/2022	<0.1	0.47	0.43			
9/14/2022				0.27		
9/15/2022					0.077 (J)	
9/19/2022						0.8



# Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 5/4/2023 3:01 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
2/1/2023	<0.1					
2/3/2023		0.45	0.48			0.9
2/7/2023				0.22	0.13	
Mean	0.09368	0.7821	0.8374	0.5017	0.2561	1.145
Std. Dev.	0.02006	0.4578	0.4335	0.4404	0.2239	0.3161
Upper Lim.	0.1	1.05	1.042	0.5915	0.2693	1.33
Lower Lim.	0.06	0.514	0.5701	0.2121	0.0904	0.9596

# Confidence Interval

Constituent: Lead (mg/L)    Analysis Run 5/4/2023 3:01 PM    View: AP 234 Confidence Intervals  
 Plant McDonough    Client: Southern Company    Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-107D	B-111D
8/17/2020	8.8E-05 (J)					
9/25/2020	0.00021 (J)					
12/9/2020				5.1E-05 (J)	4.4E-05 (J)	5.8E-05 (J)
12/17/2020			3.7E-05 (J)			
1/11/2021			5E-05 (J)			
1/12/2021		<0.001		<0.001		5.1E-05 (J)
3/4/2021			5.9E-05 (J)	<0.001	<0.001	
3/5/2021		6.5E-05 (J)				<0.001
3/8/2021	0.00018 (J)					
9/10/2021			<0.001			
9/13/2021	<0.001	<0.001			<0.001	
9/14/2021				<0.001		<0.001
1/21/2022	<0.001					
1/24/2022				<0.001	<0.001	<0.001
1/26/2022		<0.001				
1/27/2022			<0.001			
9/8/2022	<0.001					
9/13/2022				<0.001		
9/14/2022					<0.001	<0.001
9/15/2022			<0.001			
9/16/2022		<0.001				
2/2/2023	<0.001		<0.001			
2/3/2023		<0.001		<0.001		
2/6/2023					<0.001	
2/7/2023						<0.001
Mean	0.0006397	0.0008442	0.0005923	0.0008644	0.0008407	0.0007299
Std. Dev.	0.0004509	0.0003817	0.0005085	0.0003587	0.0003903	0.0004614
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.001
Lower Lim.	8.8E-05	6.5E-05	3.7E-05	5.1E-05	4.4E-05	5.1E-05

# Confidence Interval

Constituent: Lead (mg/L)    Analysis Run 5/4/2023 3:01 PM    View: AP 234 Confidence Intervals  
 Plant McDonough    Client: Southern Company    Data: McDonough AP

	B-120D	B-56	B-63	B-77	B-82	B-83
1/28/2019			<0.001			
9/11/2019			4.7E-05 (J)			
9/18/2019				0.00032 (J)		
9/23/2019					0.00016 (J)	
10/21/2019					<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		0.00022 (J)			5.9E-05 (J)	
9/24/2020				0.00021 (J)		
9/25/2020						6.5E-05 (J)
9/28/2020		9.1E-05 (J)			0.00011 (J)	
3/3/2021		0.0001 (J)				
3/4/2021				0.00029 (J)		0.00017 (J)
4/15/2021	0.00019 (J)					
9/13/2021		<0.001				
9/14/2021	<0.001		<0.001	<0.001	<0.001	
9/16/2021						<0.001
1/20/2022	<0.001		<0.001	<0.001		
1/21/2022						<0.001
1/25/2022					<0.001	
1/27/2022		<0.001				
9/13/2022				<0.001		<0.001
9/14/2022			<0.001			
9/16/2022		<0.001			<0.001	
9/19/2022	<0.001					
2/2/2023			<0.001			
2/3/2023	<0.001					<0.001
2/6/2023				<0.001		
2/7/2023		<0.001			<0.001	
Mean	0.000838	0.0006301	0.0007314	0.0008244	0.0006661	0.0006594
Std. Dev.	0.0003622	0.0004632	0.0004587	0.0004573	0.0004616	0.0004497
Upper Lim.	0.001	0.001	0.001	0.0016	0.001	0.001
Lower Lim.	0.00019	9.1E-05	4.7E-05	0.00021	5.9E-05	6.5E-05

# Confidence Interval

Constituent: Lead (mg/L)    Analysis Run 5/4/2023 3:01 PM    View: AP 234 Confidence Intervals  
 Plant McDonough    Client: Southern Company    Data: McDonough AP

	B-88	B-93	DGWC-10	DGWC-11	DGWC-12	DGWC-13
8/31/2016			<0.005	<0.001		
9/1/2016					<0.001	
9/6/2016						<0.001
12/6/2016			<0.005	<0.001		
12/7/2016					<0.001	<0.001
3/29/2017			<0.005	<0.001	<0.001	
3/30/2017						0.0002 (J)
7/12/2017			<0.005	<0.001	<0.001	<0.001
10/24/2017			<0.005	<0.001		
10/25/2017					<0.001	
11/15/2017						<0.001
2/27/2018			<0.005	<0.001	<0.001	
2/28/2018						<0.001
7/11/2018					<0.001	
11/6/2018			<0.005	<0.001		
11/7/2018					<0.001	<0.001
8/27/2019			0.00024 (J)	0.00012 (J)	0.0001 (J)	
8/28/2019						<0.001
9/17/2019					<0.001	
10/15/2019			0.00014 (J)	7.6E-05 (J)	<0.001	
10/16/2019						<0.001
3/2/2020				0.00015 (J)	<0.001	
3/3/2020			0.00011 (J)			<0.001
8/11/2020			7E-05 (J)	5.3E-05 (J)	<0.001	
8/12/2020						<0.001
8/17/2020	0.00081 (J)					
8/19/2020		0.00012 (J)				
9/22/2020				0.0001 (J)	0.00011 (J)	
9/23/2020						9.8E-05 (J)
9/24/2020			0.00013 (J)			
9/25/2020	0.00035 (J)					
9/28/2020		0.00012 (J)				
3/2/2021				<0.001		<0.001
3/3/2021					<0.001	
3/4/2021			9.2E-05 (J)			
3/5/2021	0.012					
3/9/2021		<0.001				
9/9/2021				<0.001	<0.001	<0.001
9/10/2021			<0.005			
9/13/2021	<0.001					
9/15/2021		<0.001				
1/25/2022				<0.001	<0.001	<0.001
1/26/2022		<0.001	<0.005			
1/27/2022	0.0022					
9/12/2022		<0.001				
9/15/2022			<0.005	<0.001	<0.001	<0.001
9/16/2022	<0.001					
1/31/2023		<0.001				
2/1/2023						<0.001
2/2/2023			<0.005			
2/6/2023				<0.001	<0.001	
2/7/2023	<0.001					

# Confidence Interval

Constituent: Lead (mg/L) Analysis Run 5/4/2023 3:01 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-88	B-93	DGWC-10	DGWC-11	DGWC-12	DGWC-13
Mean	0.002623	0.0007486	0.003281	0.0007352	0.0009058	0.0008999
Std. Dev.	0.004173	0.0004294	0.002399	0.0004232	0.0002822	0.0002832
Upper Lim.	0.004108	0.001	0.005	0.001	0.001	0.001
Lower Lim.	0.0002521	0.00012	0.00013	0.00012	0.00011	0.0002

# Confidence Interval

Constituent: Lead (mg/L)    Analysis Run 5/4/2023 3:01 PM    View: AP 234 Confidence Intervals  
 Plant McDonough    Client: Southern Company    Data: McDonough AP

	DGWC-14	DGWC-15	DGWC-17	DGWC-19	DGWC-2	DGWC-20
8/31/2016	<0.001					
9/1/2016				<0.001		
9/2/2016						<0.005
9/6/2016		<0.001				
9/7/2016			<0.001			
12/6/2016	<0.001					
12/7/2016		0.0002 (J)		<0.001		<0.005
12/8/2016			<0.001			
3/29/2017	<0.001			<0.001		<0.005
3/30/2017		0.0001 (J)	0.0001 (J)		0.0001 (J)	
5/11/2017					9E-05 (J)	
6/15/2017					0.0001 (J)	
7/11/2017					<0.001	
7/12/2017	<0.001	0.0001 (J)	<0.001	<0.001		<0.005
10/24/2017					<0.001	
10/25/2017	<0.001	<0.001	<0.001	<0.001		<0.005
2/27/2018	<0.001				<0.001	
2/28/2018		<0.001	<0.001	<0.001		<0.005
7/11/2018	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
11/6/2018					<0.001	
11/7/2018	<0.001	<0.001	<0.001	<0.001		<0.005
8/27/2019	<0.001		9E-05 (J)		6E-05 (J)	
8/28/2019		5.9E-05 (J)		0.00026 (J)		
8/29/2019						0.00015 (J)
10/16/2019	<0.001			<0.001		
10/17/2019		<0.001			8.6E-05 (J)	9.7E-05 (J)
10/18/2019			7.4E-05 (J)			
3/3/2020	<0.001	<0.001		7E-05 (J)	<0.001	
3/4/2020			0.00013 (J)			0.00068 (J)
8/11/2020	9.6E-05 (J)			5.3E-05 (J)	6.4E-05 (J)	
8/13/2020		0.0012 (J)				0.00044 (J)
8/14/2020			0.00017 (J)			
9/22/2020	4.4E-05 (J)			0.00016 (J)		0.00013 (J)
9/23/2020		8.2E-05 (J)			9.4E-05 (J)	
9/24/2020			7.9E-05 (J)			
3/2/2021	8.3E-05 (J)	<0.001		4.5E-05 (J)	0.00014 (J)	0.00047 (J)
3/3/2021			0.00015 (J)			
9/9/2021	<0.001	<0.001		<0.001	<0.001	
9/10/2021						<0.005
9/13/2021			<0.001			
1/20/2022					<0.001	
1/21/2022						<0.005
1/24/2022		<0.001	<0.001			
1/25/2022	<0.001			<0.001		
9/13/2022	<0.001	<0.001				
9/14/2022			<0.001	<0.001		
9/15/2022						<0.005
9/20/2022					<0.001	
2/1/2023	<0.001					
2/2/2023		<0.001				
2/6/2023			<0.001	<0.001	<0.001	
2/7/2023						<0.005

# Confidence Interval

Constituent: Lead (mg/L) Analysis Run 5/4/2023 3:01 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-14	DGWC-15	DGWC-17	DGWC-19	DGWC-2	DGWC-20
Mean	0.0008457	0.0007634	0.0006552	0.0007549	0.0005963	0.003443
Std. Dev.	0.0003551	0.0004215	0.0004454	0.0004091	0.0004647	0.00227
Upper Lim.	0.001	0.0012	0.001	0.001	0.001	0.005
Lower Lim.	9.6E-05	0.0001	0.0001	0.00016	9E-05	0.00044

# Confidence Interval

Constituent: Lead (mg/L)    Analysis Run 5/4/2023 3:01 PM    View: AP 234 Confidence Intervals  
 Plant McDonough    Client: Southern Company    Data: McDonough AP

	DGWC-21	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48
9/1/2016					0.0005 (J)	0.0008 (J)
9/2/2016	0.0002 (J)					
9/7/2016				0.0002 (J)		
12/8/2016	<0.001			0.0002 (J)	<0.001	0.0019 (J)
3/28/2017			0.0002 (J)			
3/30/2017	0.0004 (J)	<0.001				0.0035 (J)
3/31/2017				0.0004 (J)	0.0009 (J)	
5/12/2017		<0.001	<0.001			
6/15/2017		<0.001	<0.001			
7/11/2017			<0.001			
7/12/2017	0.0001 (J)	<0.001				
7/13/2017				0.0004 (J)	0.0007 (J)	0.002 (J)
10/24/2017			<0.001			
10/25/2017	<0.001			0.0002 (J)		
10/26/2017		<0.001			0.0009 (J)	0.0022 (J)
2/27/2018			<0.001			
2/28/2018	<0.001			<0.001		
3/1/2018		<0.001			<0.001	
3/2/2018						<0.001
7/11/2018	<0.001			0.00052 (J)		
7/12/2018		<0.001			0.001 (J)	0.0014 (J)
11/6/2018			<0.001			
11/7/2018	<0.001			<0.005 (J)	<0.005 (J)	<0.005 (J)
11/8/2018		<0.001				
8/27/2019			4.9E-05 (J)			
8/28/2019				0.00036 (J)		
8/29/2019	0.00023 (J)	6.6E-05 (J)			0.0006 (J)	0.001 (J)
10/15/2019			0.0001 (J)			
10/17/2019	4.6E-05 (J)			0.00026 (J)	0.0011 (J)	
10/18/2019		<0.001				0.00095 (J)
3/2/2020			<0.001			
3/3/2020	0.00015 (J)					
3/4/2020		<0.001		0.0001 (J)	0.00088 (J)	0.0012 (J)
8/12/2020			<0.001		0.0004 (J)	
8/13/2020		<0.001		0.0016 (J)		0.00092 (J)
8/14/2020	<0.001					
9/22/2020			<0.001	0.00074 (J)		
9/23/2020					0.00053 (J)	0.001 (J)
9/24/2020	0.00014 (J)	<0.001				
3/1/2021			0.00012 (J)			
3/3/2021	<0.001	<0.001		0.00024 (J)	0.0007 (J)	0.0011
9/9/2021	<0.001	<0.001				
9/10/2021			<0.001		<0.001	0.00099 (J)
9/13/2021				<0.001		
1/20/2022	<0.001	<0.001		<0.001		
1/21/2022					<0.001	
1/24/2022			<0.001			0.0011
9/13/2022				<0.001	<0.001	0.00093 (J)
9/15/2022	<0.001					
9/19/2022			<0.001			
9/20/2022		<0.001				
2/1/2023				<0.001		



# Confidence Interval

Constituent: Lead (mg/L) Analysis Run 5/4/2023 3:01 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-21	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48
2/3/2023			<0.001		<0.001	<0.001
2/6/2023		<0.001				
2/7/2023	<0.001					
Mean	0.0006814	0.0009481	0.0007923	0.0008456	0.001067	0.001555
Std. Dev.	0.0004165	0.0002201	0.0003869	0.001117	0.001004	0.001091
Upper Lim.	0.001	0.001	0.001	0.0004248	0.001	0.002
Lower Lim.	0.00015	6.6E-05	0.0002	0.0001625	0.0006	0.00095

# Confidence Interval

Constituent: Lead (mg/L)    Analysis Run 5/4/2023 3:01 PM    View: AP 234 Confidence Intervals  
 Plant McDonough    Client: Southern Company    Data: McDonough AP

	DGWC-5	DGWC-8	DGWC-9
8/30/2016		<0.001	<0.005
8/31/2016	0.0002 (J)		
12/6/2016	0.0004 (J)	<0.001	<0.005
3/28/2017	<0.001		<0.005
3/29/2017		0.0001 (J)	
7/11/2017	<0.001	<0.001	<0.005
10/24/2017		<0.001	<0.005
10/25/2017	0.0024 (J)		
2/27/2018	<0.001	<0.001	<0.005
7/11/2018			<0.005
11/6/2018	<0.001	<0.001	<0.005
8/27/2019	5.1E-05 (J)		<0.005
8/28/2019		8.2E-05 (J)	
10/16/2019	8.5E-05 (J)	0.00029 (J)	
10/17/2019			<0.005
3/2/2020	5.1E-05 (J)		
3/3/2020		0.00023 (J)	0.00017 (J)
8/11/2020			<0.005
8/12/2020	6.3E-05 (J)	0.0007 (J)	
9/22/2020	4.8E-05 (J)		0.00015 (J)
9/23/2020		0.00011 (J)	
3/2/2021	8E-05 (J)	0.00027 (J)	0.00028 (J)
9/10/2021	<0.001		<0.005
9/13/2021		<0.001	
1/24/2022	<0.001		
1/25/2022		<0.001	
1/26/2022			<0.005
9/14/2022	<0.001		
9/15/2022		<0.001	
9/19/2022			<0.005
2/3/2023			<0.005
2/7/2023	<0.001	<0.001	
Mean	0.0006693	0.0006931	0.0042
Std. Dev.	0.000631	0.0004002	0.001841
Upper Lim.	0.001	0.001	0.005
Lower Lim.	6.3E-05	0.00023	0.00028

# Confidence Interval

Constituent: Lithium (mg/L)    Analysis Run 5/4/2023 3:01 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	0.0013 (J)					
9/25/2020	0.0027 (J)					
12/9/2020				0.039 (J)		0.017 (J)
12/17/2020			0.012 (J)		0.0048 (J)	
1/11/2021			0.015 (J)			
1/12/2021		0.012 (J)		0.039		
3/4/2021			0.014 (J)	0.038	0.0054 (J)	0.015 (J)
3/5/2021		0.015 (J)				
3/8/2021	0.0024 (J)					
9/10/2021			0.012 (J)			
9/13/2021	0.0022 (J)	0.011 (J)			0.0056 (J)	0.014 (J)
9/14/2021				0.036		
1/21/2022	0.0021 (J)					
1/24/2022				0.036		0.015 (J)
1/25/2022					0.0055 (J)	
1/26/2022		0.0098 (J)				
1/27/2022			0.013 (J)			
9/8/2022	0.0023 (J)					
9/13/2022				0.04		
9/14/2022						0.015 (J)
9/15/2022			0.013 (J)			
9/16/2022		0.011 (J)			0.0054 (J)	
2/2/2023	<0.03		0.011 (J)			
2/3/2023		0.008 (J)		0.037		
2/6/2023						0.014 (J)
2/7/2023					0.0053 (J)	
Mean	0.004	0.01113	0.01286	0.03786	0.005333	0.015
Std. Dev.	0.00487	0.002338	0.001345	0.001574	0.0002805	0.001095
Upper Lim.	0.015	0.01435	0.01445	0.03973	0.005719	0.0165
Lower Lim.	0.0013	0.007921	0.01126	0.03599	0.004948	0.01358

# Confidence Interval

Constituent: Lithium (mg/L)    Analysis Run 5/4/2023 3:01 PM    View: AP 234 Confidence Intervals  
 Plant McDonough    Client: Southern Company    Data: McDonough AP

	B-108D	B-109D	B-111D	B-120D	B-56	B-62
1/30/2019						<0.05
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	0.016 (J)		0.021 (J)			
1/12/2021			0.021 (J)			
1/13/2021		0.016 (J)				
3/3/2021					0.0051 (J)	
3/4/2021	0.014 (J)					
3/5/2021			0.028 (J)			
3/8/2021		0.014 (J)				
3/12/2021						0.0087 (J)
4/15/2021				0.088		
9/9/2021						0.0094 (J)
9/10/2021		0.013 (J)				
9/13/2021					0.0055 (J)	
9/14/2021	0.015 (J)		0.029 (J)	0.077		
1/20/2022		0.014 (J)		0.079		0.0092 (J)
1/24/2022	0.014 (J)		0.026 (J)			
1/27/2022					0.0061 (J)	
9/8/2022						0.0085 (J)
9/14/2022			0.02 (J)			
9/15/2022	0.016 (J)					
9/16/2022					0.0057 (J)	
9/19/2022				0.076		
9/20/2022		0.013 (J)				
2/2/2023						0.0082 (J)
2/3/2023				0.068		
2/6/2023		0.012 (J)				
2/7/2023	0.014 (J)		0.018 (J)		0.0054 (J)	
Mean	0.01483	0.01367	0.02329	0.0776	0.005486	0.01017
Std. Dev.	0.0009832	0.001366	0.004309	0.007162	0.0003716	0.005237
Upper Lim.	0.016	0.01554	0.0284	0.0896	0.005927	0.0094
Lower Lim.	0.014	0.01179	0.01817	0.0656	0.005044	0.0078

# Confidence Interval

Constituent: Lithium (mg/L)    Analysis Run 5/4/2023 3:01 PM    View: AP 234 Confidence Intervals  
 Plant McDonough    Client: Southern Company    Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88
1/28/2019	<0.05					
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)
9/24/2020			0.00095 (J)			
9/25/2020					0.0018 (J)	0.0016 (J)
9/28/2020				0.001 (J)		
3/4/2021			0.0011 (J)		0.0024 (J)	
3/5/2021						0.029 (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)		
9/16/2021					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)		
1/27/2022						0.0066 (J)
9/13/2022			0.0021 (JD)		0.0027 (J)	
9/14/2022	0.0072 (JD)					
9/16/2022		<0.03		0.00078 (J)		0.0021 (J)
2/2/2023	0.0045 (J)					
2/3/2023					0.0025 (J)	
2/6/2023			<0.03			
2/7/2023		<0.03		0.00073 (J)		0.0071 (J)
Mean	0.008563	0.02582	0.01158	0.001679	0.00265	0.007729
Std. Dev.	0.006686	0.01106	0.01386	0.001309	0.0008332	0.009684
Upper Lim.	0.025	0.03	0.03	0.0039	0.003477	0.01599
Lower Lim.	0.0045	0.00073	0.00095	0.00073	0.001851	0.001349

# Confidence Interval

Constituent: Lithium (mg/L)    Analysis Run 5/4/2023 3:01 PM    View: AP 234 Confidence Intervals  
 Plant McDonough    Client: Southern Company    Data: McDonough AP

	B-92	B-93	B-97	B-98	DGWC-10	DGWC-11
8/31/2016					0.0022 (J)	0.0022 (J)
12/6/2016					<0.05	0.0027 (J)
3/29/2017					0.002 (J)	0.0021 (J)
7/12/2017					0.0019 (J)	0.0022 (J)
10/24/2017					0.0022 (J)	0.0024 (J)
2/27/2018					0.0037 (J)	0.0022 (J)
11/6/2018					<0.05	<0.05
8/27/2019					0.0053 (J)	0.0023 (J)
10/15/2019					0.0051 (J)	0.0019 (J)
3/2/2020						0.0023 (J)
3/3/2020					0.0049 (J)	
8/11/2020					0.0033 (J)	0.0028 (J)
8/19/2020		0.011 (J)				
9/22/2020						0.0019 (J)
9/24/2020					0.0049 (J)	
9/28/2020		0.011 (J)				
3/2/2021						0.0017 (J)
3/4/2021					0.0042 (J)	
3/9/2021		0.012 (J)				
9/9/2021						0.0029 (J)
9/10/2021					0.0051 (J)	
9/15/2021	0.012 (J)	0.011 (J)	0.0042 (J)	0.0012 (J)		
1/25/2022						0.0021 (J)
1/26/2022	0.015 (J)	0.013 (J)	0.0047 (J)	0.0013 (J)	0.0059 (J)	
9/12/2022	0.015 (J)	0.013 (J)				
9/13/2022			0.0052 (J)	0.0011 (J)		
9/15/2022					0.0053 (J)	0.0024 (J)
1/31/2023	0.014 (J)	0.011 (J)		0.00089 (J)		
2/1/2023			0.0048 (J)			
2/2/2023					0.0049 (J)	
2/6/2023						0.0018 (J)
Mean	0.014	0.01171	0.004725	0.001123	0.006524	0.003582
Std. Dev.	0.001414	0.0009512	0.0004113	0.0001752	0.007076	0.005529
Upper Lim.	0.01721	0.013	0.005659	0.00152	0.0059	0.0027
Lower Lim.	0.01079	0.011	0.003791	0.0007248	0.0022	0.0019

# Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 5/4/2023 3:01 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016			0.0031 (J)			
9/1/2016	<0.03					0.0034 (J)
9/6/2016		0.0029 (J)		0.0064 (J)		
9/7/2016					<0.03	
12/6/2016			0.0042 (J)			
12/7/2016	<0.03	0.003 (J)		0.0066 (J)		0.0034 (J)
12/8/2016					<0.03	
3/29/2017	<0.03		0.0041 (J)			0.0031 (J)
3/30/2017		0.0035 (J)		0.0061 (J)	<0.03	
7/12/2017	<0.03	0.0028 (J)	0.0036 (J)	0.006 (J)	<0.03	0.0032 (J)
10/25/2017	<0.03		0.0032 (J)	0.0061 (J)	<0.03	0.0031 (J)
11/15/2017		0.0028 (J)				
2/27/2018	0.00097 (J)		0.0035 (J)			
2/28/2018		<0.05		0.0062 (J)	<0.03	0.0031 (J)
7/11/2018	<0.03		0.0034 (J)	0.0058 (J)	<0.03	0.0034 (J)
11/7/2018	<0.03	<0.05	<0.05	<0.05 (O)	<0.03	<0.05
8/27/2019	0.0011 (J)		0.0038 (J)		0.00089 (J)	
8/28/2019		0.0033 (J)		0.0063 (J)		0.0032 (J)
9/17/2019	0.0011 (J)					
10/15/2019	0.00091 (J)					
10/16/2019		0.0029 (J)	0.0032 (J)			0.0026 (J)
10/17/2019				0.0064 (J)		
10/18/2019					0.00096 (J)	
3/2/2020	<0.03					
3/3/2020		0.0035 (J)	0.008 (J)	0.0059 (J)		0.0034 (J)
3/4/2020					0.0011 (J)	
8/11/2020	0.0011 (J)		0.0035 (J)			0.0031 (J)
8/12/2020		0.0034 (J)				
8/13/2020				0.0089 (J)		
8/14/2020					0.0015 (J)	
9/22/2020	<0.03		0.0038 (J)			0.0034 (J)
9/23/2020		0.0033 (J)		0.006 (J)		
9/24/2020					0.00096 (J)	
3/2/2021		0.0033 (J)	0.004 (J)	0.0051 (J)		0.003 (J)
3/3/2021	<0.03				0.0011 (J)	
9/9/2021	<0.03	0.0036 (J)	0.0044 (J)	0.0057 (J)		0.0035 (J)
9/13/2021					<0.03	
1/24/2022				0.0051 (J)	<0.03	
1/25/2022	<0.03	0.0037 (J)	0.0043 (J)			0.0031 (J)
9/13/2022			0.0043 (J)	0.0057 (J)		
9/14/2022					<0.03	0.0032 (J)
9/15/2022	0.00088 (J)	0.004 (J)				
2/1/2023		0.0031 (J)	0.018 (J)			
2/2/2023				0.005 (J)		
2/6/2023	<0.03				<0.03	0.0026 (J)
Mean	0.02085	0.005829	0.005967	0.006076	0.02036	0.004378
Std. Dev.	0.01384	0.007223	0.005876	0.0008657	0.01403	0.005153
Upper Lim.	0.03	0.0037	0.0044	0.0064	0.03	0.0034
Lower Lim.	0.0011	0.0029	0.0034	0.0057	0.0011	0.003

# Confidence Interval

Constituent: Lithium (mg/L)    Analysis Run 5/4/2023 3:01 PM    View: AP 234 Confidence Intervals  
 Plant McDonough    Client: Southern Company    Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4
9/2/2016		0.0021 (J)	0.0057 (J)	0.0046 (J)		
12/7/2016		0.005 (J)				
12/8/2016			0.0054 (J)	0.0047 (J)		
3/28/2017						0.0031 (J)
3/29/2017		0.0021 (J)		0.0043 (J)		
3/30/2017	0.0807		0.0065 (J)		0.0162 (J)	
5/11/2017	0.085					
5/12/2017					0.0036 (J)	0.0027 (J)
6/15/2017	0.0781				0.0063 (J)	0.0025 (J)
7/11/2017	0.0731					0.0022 (J)
7/12/2017		0.0019 (J)	0.0057 (J)		0.0068 (J)	
7/13/2017				0.0044 (J)		
10/24/2017	0.0995					0.0024 (J)
10/25/2017		0.0022 (J)	0.006 (J)	0.0042 (J)		
10/26/2017					0.0049 (J)	
2/27/2018	0.0875					0.0027 (J)
2/28/2018		0.0019 (J)	0.0061 (J)	0.0043 (J)		
3/1/2018					0.0759	
7/11/2018	0.033 (J)	0.0022 (J)	0.0057 (J)			
7/12/2018				0.0036 (J)	0.0047 (J)	
11/6/2018	<0.05					<0.05
11/7/2018		<0.05	<0.05	<0.05		
11/8/2018				<0.05		
8/27/2019	0.032					0.0033 (J)
8/29/2019		0.0093 (J)	0.0061 (J)	0.0035 (J)	0.0017 (J)	
10/15/2019						0.0029 (J)
10/17/2019	0.029 (J)	0.0075 (J)	0.0063 (J)			
10/18/2019				0.0041 (J)	0.0039 (J)	
3/2/2020						0.0035 (J)
3/3/2020	0.026 (J)		0.0065 (J)	0.0046 (J)		
3/4/2020		0.019 (J)			0.004 (J)	
8/11/2020	0.028 (J)					
8/12/2020						0.0031 (J)
8/13/2020		0.012 (J)			0.0052 (J)	
8/14/2020			0.0058 (J)	0.0039 (J)		
9/22/2020		0.0026 (J)				0.0026 (J)
9/23/2020	0.022 (J)					
9/24/2020			0.0062 (J)	0.0037 (J)	0.0045 (J)	
3/1/2021						0.0035 (J)
3/2/2021	0.023 (J)	0.011 (J)				
3/3/2021			0.0054 (J)	0.0038 (J)	0.014 (J)	
9/9/2021	0.024 (J)		0.006 (J)		0.0081 (J)	
9/10/2021		0.0023 (J)		0.0039 (J)		0.0035 (J)
1/20/2022	0.024 (J)		0.0058 (J)	0.0032 (J)	0.0029 (J)	
1/21/2022		0.012 (J)				
1/24/2022						0.0038 (J)
9/15/2022		0.0096 (J)	0.0069 (J)			
9/16/2022				0.0033 (J)		
9/19/2022						0.0037 (J)
9/20/2022	0.021 (J)				0.0051 (J)	
2/3/2023						0.0036 (J)
2/6/2023	0.017 (J)			0.0034 (J)	0.0022 (J)	



# Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 5/4/2023 3:01 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-2	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4
2/7/2023		0.013 (J)	0.0056 (J)			
Mean	0.04488	0.007817	0.007039	0.005139	0.01083	0.004359
Std. Dev.	0.02911	0.006694	0.0045	0.004978	0.01726	0.005342
Upper Lim.	0.0807	0.012	0.0065	0.0046	0.01097	0.0036
Lower Lim.	0.023	0.0021	0.0057	0.0035	0.003628	0.0026

# Confidence Interval

Constituent: Lithium (mg/L)    Analysis Run 5/4/2023 3:01 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					0.005 (J)	0.0212 (J)
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)	0.0066 (J)	0.0242 (J)
12/8/2016	0.0118 (J)	0.0667	0.122			
3/28/2017				0.0028 (J)		0.0249 (J)
3/29/2017					0.0059 (J)	
3/30/2017			0.144			
3/31/2017	0.0119 (J)	0.0767				
7/11/2017				0.0031 (J)	0.0045 (J)	0.022 (J)
7/13/2017	0.0116 (J)	0.0743	0.143			
10/24/2017					0.0072 (J)	0.0281 (J)
10/25/2017	0.0122 (J)			0.0055 (J)		
10/26/2017		0.071	0.115			
2/27/2018				0.0066 (J)	0.0075 (J)	0.031 (J)
2/28/2018	0.0122 (J)					
3/1/2018		0.0772				
3/2/2018			0.129			
7/11/2018	0.01 (J)					0.028 (J)
7/12/2018		0.073	0.12			
11/6/2018				<0.05	<0.05	<0.05
11/7/2018	<0.05	0.082	0.12			
8/27/2019				0.008 (J)		0.031
8/28/2019	0.01 (J)				0.0048 (J)	
8/29/2019		0.056	0.11			
10/16/2019				0.006 (J)	0.0045 (J)	
10/17/2019	0.011 (J)	0.066				0.029 (J)
10/18/2019			0.11			
3/2/2020				0.0079 (J)		
3/3/2020					0.0052 (J)	0.028 (J)
3/4/2020	0.0091 (J)	0.063	0.12			
8/11/2020						0.032
8/12/2020		0.054		0.0067 (J)	0.0058 (J)	
8/13/2020	0.011 (J)		0.098			
9/22/2020	0.0099 (J)			0.0065 (J)		0.025 (J)
9/23/2020		0.046	0.1		0.0045 (J)	
3/2/2021				0.0064 (J)	0.0046 (J)	0.028 (J)
3/3/2021	0.0079 (J)	0.049	0.096			
9/10/2021		0.053	0.095	0.0071 (J)		0.027 (J)
9/13/2021	0.015 (J)				0.0034 (J)	
1/20/2022	0.0069 (J)					
1/21/2022		0.055				
1/24/2022			0.11	0.0068 (J)		
1/25/2022					0.0032 (J)	
1/26/2022						0.029 (J)
9/13/2022	0.0091 (J)	0.05	0.099			
9/14/2022				0.0081 (J)		
9/15/2022					0.0039 (J)	
9/19/2022						0.023 (J)
2/1/2023	0.0068 (J)					
2/3/2023		0.048	0.089			0.025 (J)

# Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 5/4/2023 3:01 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
2/7/2023				0.0072 (J)	0.0036 (J)	
Mean	0.0113	0.06368	0.1136	0.007112	0.006188	0.02674
Std. Dev.	0.003989	0.01267	0.01589	0.004931	0.005007	0.003134
Upper Lim.	0.0122	0.07135	0.1232	0.0079	0.0066	0.02864
Lower Lim.	0.0091	0.05601	0.104	0.0046	0.0039	0.02485

# Confidence Interval

Constituent: Mercury (mg/L)    Analysis Run 5/4/2023 3:01 PM    View: AP 234 Confidence Intervals  
 Plant McDonough    Client: Southern Company    Data: McDonough AP

	B-100	B-101D	B-104D	B-107D	B-108D	B-111D
8/17/2020	0.00011 (J)					
9/25/2020	<0.0002					
12/9/2020			7.9E-05 (J)	0.00016 (J)	0.00014 (J)	9.4E-05 (J)
1/12/2021		<0.0002	<0.0002			<0.0002
3/4/2021			<0.0002	<0.0002	<0.0002	
3/5/2021		0.00014 (J)				<0.0002
9/13/2021	<0.0002	<0.0002		<0.0002		
9/14/2021			<0.0002		<0.0002	<0.0002
1/21/2022	<0.0002					
1/24/2022			<0.0002	<0.0002	<0.0002	<0.0002
1/26/2022		<0.0002				
9/8/2022	<0.0002					
9/13/2022			<0.0002			
9/14/2022				<0.0002		<0.0002
9/15/2022					<0.0002	
9/16/2022		<0.0002				
2/2/2023	<0.0002					
2/3/2023		0.00029	<0.0002			
2/6/2023				<0.0002		
2/7/2023					<0.0002	<0.0002
Mean	0.000185	0.000205	0.0001827	0.0001933	0.00019	0.0001849
Std. Dev.	3.674E-05	4.806E-05	4.573E-05	1.633E-05	2.449E-05	4.006E-05
Upper Lim.	0.0002	0.00029	0.0002	0.0002	0.0002	0.0002
Lower Lim.	0.00011	0.00014	7.9E-05	0.00016	0.00014	9.4E-05

# Confidence Interval

Constituent: Mercury (mg/L)    Analysis Run 5/4/2023 3:01 PM    View: AP 234 Confidence Intervals  
 Plant McDonough    Client: Southern Company    Data: McDonough AP

	B-56	B-66	B-82	B-88	B-92	B-93
1/30/2019		<0.0002				
9/12/2019		<0.0002				
9/23/2019			<0.0002			
10/21/2019		<0.0002	<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)
3/3/2021	<0.0002					
3/5/2021				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					0.00017 (J)	9.8E-05 (J)
1/25/2022		<0.0002	<0.0002			
1/26/2022					<0.0002	<0.0002
1/27/2022	<0.0002			<0.0002		
9/12/2022					0.00015 (J)	0.00016 (J)
9/16/2022	<0.0002	<0.0002	<0.0002	<0.0002		
1/31/2023					0.00017 (J)	<0.0002
2/7/2023	0.00034	0.00029	<0.0002	<0.0002		
Mean	0.0002143	0.0002129	0.0001887	0.0001729	0.0001725	0.0001869
Std. Dev.	5.74E-05	3.402E-05	3.182E-05	4.645E-05	2.062E-05	5.552E-05
Upper Lim.	0.00034	0.00029	0.0002	0.0002	0.0001781	0.0002359
Lower Lim.	0.00016	0.0002	0.00011	0.0001	0.0001353	0.0001013

# Confidence Interval

Constituent: Mercury (mg/L)    Analysis Run 5/4/2023 3:01 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					
9/13/2022					<0.0002	<0.0002
9/15/2022	<0.0002	<0.0002	<0.0002	<0.0002		
2/1/2023				<0.0002	<0.0002	
2/2/2023	<0.0002					<0.0002
2/6/2023		<0.0002	<0.0002			
Mean	0.0001718	0.0001759	0.0001614	0.0001859	0.0001772	0.0001922
Std. Dev.	5.248E-05	5.397E-05	6.139E-05	4.001E-05	5.267E-05	3.3E-05
Upper Lim.	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Lower Lim.	9E-05	8E-05	8E-05	9E-05	8E-05	6E-05

# Confidence Interval

Constituent: Mercury (mg/L)    Analysis Run 5/4/2023 3:01 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				
9/14/2022	<0.0002	<0.0002				
9/15/2022				<0.0002	<0.0002	
9/16/2022						<0.0002
9/20/2022			<0.0002			
2/6/2023	0.00014 (J)	0.00013 (J)	<0.0002			0.00014 (J)
2/7/2023				<0.0002	<0.0002	
Mean	0.000147	0.0001728	0.0002041	0.0001806	0.000165	0.0001697
Std. Dev.	6.086E-05	5.518E-05	0.0001184	4.478E-05	5.963E-05	5.354E-05
Upper Lim.	0.0002	0.0002	0.00064	0.0002	0.0002	0.0002

# Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 5/4/2023 3:01 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22
Lower Lim.	8.2E-05	0.00013	8.3E-05	9E-05	8E-05	0.00011



# Confidence Interval

Constituent: Mercury (mg/L)    Analysis Run 5/4/2023 3:01 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
9/13/2022			<0.0002	<0.0002		

# Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 5/4/2023 3:01 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
9/14/2022					0.00022	
9/15/2022						<0.0002
9/19/2022		<0.0002				
9/20/2022	<0.0002					
2/1/2023			<0.0002			
2/3/2023		<0.0002		<0.0002		
2/6/2023	<0.0002					
2/7/2023					0.00026	<0.0002
Mean	0.0001878	0.000206	0.0001911	0.0001922	0.0001914	0.0001583
Std. Dev.	5.231E-05	0.0001076	3.771E-05	3.3E-05	0.0001144	6.028E-05
Upper Lim.	0.0002	0.00022	0.0002	0.0002	0.0002401	0.0002
Lower Lim.	0.00014	0.00013	4E-05	6E-05	0.0001229	9E-05

# Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 5/4/2023 3:01 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-9
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
9/22/2020	0.00013 (J)
3/2/2021	0.00017 (J)
9/10/2021	0.00014 (J)
1/26/2022	0.00014 (J)
9/19/2022	0.0002
2/3/2023	0.00017 (J)
Mean	0.0001851
Std. Dev.	8.025E-05
Upper Lim.	0.0002
Lower Lim.	0.00014

# Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 5/4/2023 3:01 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-109D	B-111D
8/17/2020	<0.01					
9/25/2020	<0.01					
12/9/2020				0.0012 (J)		0.0055 (J)
12/17/2020			<0.01			
1/11/2021			<0.01			
1/12/2021		0.0022 (J)		<0.01		0.0054 (J)
1/13/2021					0.0022 (J)	
3/4/2021			<0.01	<0.01		
3/5/2021		<0.01				0.0067 (J)
3/8/2021	<0.01				0.0014 (J)	
9/10/2021			<0.01		0.0011 (J)	
9/13/2021	<0.01	<0.01				
9/14/2021				<0.01		0.013
1/20/2022					0.0012 (J)	
1/21/2022	<0.01					
1/24/2022				0.00083 (J)		0.0052 (J)
1/26/2022		<0.01				
1/27/2022			<0.01			
9/8/2022	<0.01					
9/13/2022				<0.01		
9/14/2022						0.0069 (J)
9/15/2022			0.0015 (J)			
9/16/2022		<0.01				
9/20/2022					0.0014 (J)	
2/2/2023	0.19		<0.01			
2/3/2023		<0.01		<0.01		
2/6/2023					0.0014 (J)	
2/7/2023						0.0077 (J)
Mean	0.03571	0.0087	0.008786	0.007433	0.00145	0.0072
Std. Dev.	0.06803	0.003184	0.003213	0.004386	0.0003886	0.002719
Upper Lim.	0.19	0.01	0.01	0.01	0.001963	0.013
Lower Lim.	0.01	0.0022	0.0015	0.00083	0.001018	0.0052

# Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 5/4/2023 3:01 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-66	B-88	B-98	DGWC-13	DGWC-2
9/6/2016					0.0371	
12/7/2016					0.0273	
3/30/2017					0.03	0.0009 (J)
5/11/2017						0.0009 (J)
6/15/2017						<0.01
7/11/2017						<0.01
7/12/2017					0.0323	
10/24/2017						<0.01
11/15/2017					0.0275	
2/27/2018						<0.01
2/28/2018					0.0093 (J)	
7/11/2018						<0.01
11/6/2018						<0.01
11/7/2018					0.018	
1/30/2019		<0.01				
8/27/2019						0.002 (J)
8/28/2019					0.015	
9/12/2019		0.0018 (J)				
10/16/2019					0.014	
10/17/2019						0.0018 (J)
10/21/2019		0.0015 (J)				
3/3/2020					0.018	0.0022 (J)
8/11/2020						0.002 (J)
8/12/2020					0.012	
8/17/2020			0.0012 (J)			
9/23/2020					0.012	0.0022 (J)
9/25/2020			0.0012 (J)			
3/2/2021					0.011	0.0021 (J)
3/5/2021			<0.01			
4/15/2021	0.00089 (J)					
9/9/2021					0.011	0.0023 (J)
9/13/2021			<0.01			
9/14/2021	<0.01	<0.01				
9/15/2021				<0.01		
1/20/2022	<0.01					0.0022 (J)
1/25/2022		<0.01			0.0093 (J)	
1/26/2022				0.0015 (J)		
1/27/2022			<0.01			
9/13/2022				0.00084 (J)		
9/15/2022					0.0094 (J)	
9/16/2022		<0.01	<0.01			
9/19/2022	<0.01					
9/20/2022						0.0021 (J)
1/31/2023				0.0014 (J)		
2/1/2023					0.0085 (J)	
2/3/2023	<0.01					
2/6/2023						0.0021 (J)
2/7/2023		<0.01	<0.01			
Mean	0.008178	0.007614	0.007486	0.003435	0.01775	0.0046
Std. Dev.	0.004074	0.004075	0.004294	0.004386	0.009353	0.003948
Upper Lim.	0.01	0.01	0.01	0.002173	0.02147	0.01
Lower Lim.	0.00089	0.0015	0.0012	0.0006717	0.01153	0.002

# Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 5/4/2023 3:01 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-23	DGWC-4
3/28/2017		0.008 (J)
3/30/2017	0.0084 (J)	
5/12/2017	0.0085 (J)	0.0062 (J)
6/15/2017	0.0104	0.0044 (J)
7/11/2017		0.0041 (J)
7/12/2017	0.0092 (J)	
10/24/2017		0.0072 (J)
10/26/2017	0.0077 (J)	
2/27/2018		0.0069 (J)
3/1/2018	0.0045 (J)	
7/12/2018	0.012	
11/6/2018		<0.01 (J)
11/8/2018	0.012	
8/27/2019		0.0065 (J)
8/29/2019	0.014	
10/15/2019		0.0061 (J)
10/18/2019	0.0091 (J)	
3/2/2020		0.0059 (J)
3/4/2020	0.0047 (J)	
8/12/2020		0.0057 (J)
8/13/2020	0.013	
9/22/2020		0.0028 (J)
9/24/2020	0.0088 (J)	
3/1/2021		0.0051 (J)
3/3/2021	0.0026 (J)	
9/9/2021	0.01	
9/10/2021		0.0052 (J)
1/20/2022	0.0073 (J)	
1/24/2022		0.0045 (J)
9/19/2022		0.0037 (J)
9/20/2022	0.0095 (J)	
2/3/2023		0.0035 (J)
2/6/2023	0.007 (J)	
Mean	0.008817	0.005341
Std. Dev.	0.002976	0.001412
Upper Lim.	0.01062	0.006226
Lower Lim.	0.007016	0.004456

# Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 5/4/2023 3:01 PM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-104D	B-108D	B-111D	B-120D
8/17/2020	<0.005					
9/25/2020	<0.005					
12/9/2020			<0.005	<0.005	<0.005	
1/12/2021		<0.005	0.0016 (J)		<0.005	
3/4/2021			0.0031 (J)	0.0016 (J)		
3/5/2021		0.0031 (J)			0.0022 (J)	
3/8/2021	0.0019 (J)					
4/15/2021						0.0016 (J)
9/13/2021	<0.005	<0.005				
9/14/2021			<0.005	<0.005	<0.005	0.0022 (J)
1/20/2022						0.0021 (J)
1/21/2022	<0.005					
1/24/2022			<0.005	<0.005	<0.005	
1/26/2022		<0.005				
9/8/2022	<0.005					
9/13/2022			<0.005			
9/14/2022					<0.005	
9/15/2022				<0.005		
9/16/2022		<0.005				
9/19/2022						0.0038 (J)
2/2/2023	<0.005					
2/3/2023		<0.005	0.0018 (J)			0.005 (J)
2/7/2023				<0.005	<0.005	
Mean	0.004557	0.004683	0.003786	0.004433	0.0046	0.00294
Std. Dev.	0.001172	0.0007757	0.001586	0.001388	0.001058	0.001417
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005315
Lower Lim.	0.0019	0.0031	0.0016	0.0016	0.0022	0.0005655

# Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 5/4/2023 3:01 PM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-56	B-77	B-82	B-83	B-88	B-92
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)			
3/3/2021	0.013					
3/4/2021		0.0017 (J)		0.024		
3/5/2021					0.0033 (J)	
9/13/2021	0.011				0.0021 (J)	
9/14/2021		<0.005	<0.005			
9/15/2021						0.0067
9/16/2021				0.025		
1/20/2022		<0.005				
1/21/2022				0.027		
1/25/2022			0.002 (J)			
1/26/2022						0.0039 (J)
1/27/2022	0.0066				<0.005	
9/12/2022						0.012
9/13/2022		<0.005		0.024		
9/16/2022	0.01		<0.005		0.002 (J)	
1/31/2023						0.0086
2/3/2023				0.021		
2/6/2023		<0.005				
2/7/2023	0.01		0.0025 (J)		0.0024 (J)	
Mean	0.01294	0.004633	0.003525	0.0204	0.002471	0.0078
Std. Dev.	0.007336	0.0011	0.001595	0.006222	0.0006237	0.003401
Upper Lim.	0.02	0.005	0.005	0.02699	0.003212	0.01552
Lower Lim.	0.006852	0.0017	0.0016	0.01381	0.001731	7.858E-05



# Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 5/4/2023 3:01 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-93	B-97	B-98	DGWC-10	DGWC-12	DGWC-13
8/31/2016				0.0366		
9/1/2016					0.0017 (J)	
9/6/2016						0.0011 (J)
12/6/2016				0.0026 (J)		
12/7/2016					<0.005	0.0015 (J)
3/29/2017				0.0286	0.0017 (J)	
3/30/2017						0.0015 (J)
7/12/2017				0.0257	0.0019 (J)	<0.01
10/24/2017				0.0281		
10/25/2017					0.0024 (J)	
11/15/2017						0.0019 (J)
2/27/2018				0.0667	<0.005	
2/28/2018						<0.01
7/11/2018					<0.005	
11/6/2018				0.049		
11/7/2018					<0.01 (J)	<0.01 (J)
8/27/2019				0.015	<0.005	
8/28/2019						0.0039 (J)
9/17/2019					0.0014 (J)	
10/15/2019				0.071	0.0019 (J)	
10/16/2019						0.0031 (J)
3/2/2020					<0.005	
3/3/2020				0.021		0.0062 (J)
8/11/2020				0.023	0.0019 (J)	
8/12/2020						0.0038 (J)
8/19/2020	0.018					
9/22/2020					<0.005	
9/23/2020						0.0053 (J)
9/24/2020				0.074		
9/28/2020	0.036					
3/2/2021						0.006
3/3/2021					<0.005	
3/4/2021				0.05		
3/9/2021	0.0099 (J)					
9/9/2021					<0.005	0.006
9/10/2021				0.034		
9/15/2021	0.0076	0.0024 (J)	0.0033 (J)			
1/25/2022					<0.005	0.006
1/26/2022	0.0063	0.0015 (J)	<0.005	0.015		
9/12/2022	0.013					
9/13/2022		0.0032 (J)	<0.005			
9/15/2022				0.02	<0.005	0.004 (J)
1/31/2023	0.013		<0.005			
2/1/2023		0.0036 (J)				0.0036 (J)
2/2/2023				0.015		
2/6/2023					<0.005	
Mean	0.01483	0.002675	0.004575	0.03384	0.0041	0.004935
Std. Dev.	0.01012	0.0009287	0.00085	0.02123	0.002107	0.002937
Upper Lim.	0.02586	0.004783	0.005	0.04715	0.005	0.004438
Lower Lim.	0.005315	0.0005665	0.0033	0.02054	0.0019	0.002327

# Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 5/4/2023 3:01 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-14	DGWC-15	DGWC-17	DGWC-19	DGWC-2	DGWC-20
8/31/2016	0.0016 (J)					
9/1/2016				0.0093 (J)		
9/2/2016						0.0671
9/6/2016		<0.005				
9/7/2016			0.007 (J)			
12/6/2016	<0.005					
12/7/2016		<0.005		<0.01		0.0056 (J)
12/8/2016			0.0087 (J)			
3/29/2017	<0.005			0.0071 (J)		0.0521
3/30/2017		<0.005	0.0099 (J)		<0.01	
5/11/2017					<0.01	
6/15/2017					<0.01	
7/11/2017					<0.01	
7/12/2017	<0.005	<0.005	0.0072 (J)	0.0065 (J)		0.0483
10/24/2017					<0.01	
10/25/2017	<0.005	<0.005	0.0078 (J)	0.0087 (J)		0.0506
2/27/2018	<0.005				<0.01	
2/28/2018		<0.005	<0.01	0.0114		0.0755
7/11/2018	0.002 (J)	<0.005	0.007 (J)	0.0036 (J)	0.0045 (J)	0.022
11/6/2018					<0.01 (J)	
11/7/2018	<0.01 (J)	<0.01 (J)	<0.01	<0.01 (J)		0.044
8/27/2019	<0.005		0.0073 (J)		0.0069 (J)	
8/28/2019		<0.005		0.004 (J)		
8/29/2019						0.029
10/16/2019	0.0017 (J)			0.006 (J)		
10/17/2019		<0.005			0.0051 (J)	0.071
10/18/2019			0.0093 (J)			
3/3/2020	0.0014 (J)	<0.005		0.0066 (J)	0.0047 (J)	
3/4/2020			0.0074 (J)			0.071
8/11/2020	<0.005			0.0096 (J)	0.0053 (J)	
8/13/2020		0.0018 (J)				0.091
8/14/2020			0.0084 (J)			
9/22/2020	<0.005			0.0052 (J)		0.023
9/23/2020		<0.005			0.0046 (J)	
9/24/2020			0.015			
3/2/2021	<0.005	<0.005		0.0091	0.0037 (J)	0.078
3/3/2021			0.0072			
9/9/2021	0.0017 (J)	<0.005		0.0083	0.0031 (J)	
9/10/2021						0.031
9/13/2021			0.0071			
1/20/2022					0.0031 (J)	
1/21/2022						0.041
1/24/2022		<0.005	0.0064			
1/25/2022	0.0016 (J)			0.0029 (J)		
9/13/2022	<0.005	<0.005				
9/14/2022			0.0064	0.0073		
9/15/2022						0.062
9/20/2022					0.0018 (J)	
2/1/2023	0.0014 (J)					
2/2/2023		<0.005				
2/6/2023			0.0057	0.0042 (J)	0.0014 (J)	
2/7/2023						0.057

# Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 5/4/2023 3:01 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-14	DGWC-15	DGWC-17	DGWC-19	DGWC-2	DGWC-20
Mean	0.003967	0.0051	0.007656	0.006656	0.006344	0.05107
Std. Dev.	0.002244	0.001436	0.002252	0.002379	0.003243	0.02285
Upper Lim.	0.005	0.01	0.008642	0.008095	0.01	0.06489
Lower Lim.	0.0016	0.0018	0.006345	0.005216	0.0031	0.03724

# Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 5/4/2023 3:01 PM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-4	DGWC-47	DGWC-48	DGWC-5	DGWC-8
8/30/2016						0.0032 (J)
8/31/2016					0.0182	
9/1/2016			0.0217	0.0084 (J)		
9/2/2016	<0.005					
12/6/2016					0.012	<0.005
12/8/2016	<0.005		0.017	0.0084 (J)		
3/28/2017		<0.005			0.168	
3/29/2017	<0.005					0.0048 (J)
3/30/2017				0.0079 (J)		
3/31/2017			0.0133			
5/12/2017		<0.005				
6/15/2017		<0.005				
7/11/2017		<0.005			0.0607	0.0031 (J)
7/13/2017	<0.005		0.0068 (J)	0.0062 (J)		
10/24/2017		<0.005				0.0069 (J)
10/25/2017	<0.005				0.034	
10/26/2017			0.0097 (J)	0.0058 (J)		
2/27/2018		<0.005			0.0348	<0.005
2/28/2018	<0.005					
3/1/2018			0.0124			
3/2/2018				<0.005		
7/12/2018	0.0017 (J)		0.015	0.013		
11/6/2018		<0.005			<0.01 (J)	<0.01 (J)
11/7/2018	<0.005		<0.01 (J)	<0.01 (J)		
8/27/2019		<0.005			0.0031 (J)	
8/28/2019						<0.005
8/29/2019	<0.005		0.004 (J)	0.0023 (J)		
10/15/2019		0.0014 (J)				
10/16/2019					0.015	0.0016 (J)
10/17/2019			0.0062 (J)			
10/18/2019	<0.005			0.005 (J)		
3/2/2020		<0.005			0.032	
3/3/2020	<0.005					0.0018 (J)
3/4/2020			0.0065 (J)	0.0061 (J)		
8/12/2020		<0.005	0.002 (J)		0.011	<0.005
8/13/2020				0.0029 (J)		
8/14/2020	<0.005					
9/22/2020		<0.005			0.04	
9/23/2020			<0.01	0.0016 (J)		0.0028 (J)
9/24/2020	<0.005					
3/1/2021		<0.005				
3/2/2021					0.0081	<0.005
3/3/2021	<0.005		0.0039 (J)	0.0025 (J)		
9/10/2021	<0.005	<0.005	0.0035 (J)	0.0022 (J)	0.0099	
9/13/2021						<0.005
1/20/2022	<0.005					
1/21/2022			0.0016 (J)			
1/24/2022		<0.005		<0.005	0.0048 (J)	
1/25/2022						<0.005
9/13/2022			0.0031 (J)	0.0019 (J)		
9/14/2022					0.019	
9/15/2022						<0.005

# Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 5/4/2023 3:01 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-22	DGWC-4	DGWC-47	DGWC-48	DGWC-5	DGWC-8
9/16/2022	<0.005					
9/19/2022		<0.005				
2/3/2023		<0.005	0.0015 (J)	<0.005		
2/6/2023	<0.005					
2/7/2023					0.0082	<0.005
Mean	0.004817	0.004788	0.007678	0.005511	0.02846	0.004659
Std. Dev.	0.0007778	0.0008731	0.005878	0.003126	0.03921	0.001939
Upper Lim.	0.005	0.005	0.01027	0.006278	0.03136	0.0069
Lower Lim.	0.0017	0.0014	0.003878	0.002622	0.00872	0.0031

# Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 5/4/2023 3:01 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-9
8/30/2016	0.0833
12/6/2016	0.0065 (J)
3/28/2017	0.0954
7/11/2017	0.0561
10/24/2017	0.0653
2/27/2018	0.13
7/11/2018	0.045
11/6/2018	0.12
8/27/2019	0.067
10/17/2019	0.19
3/3/2020	0.046
8/11/2020	0.11
9/22/2020	0.23
3/2/2021	0.07
9/10/2021	0.057
1/26/2022	0.025
9/19/2022	0.048
2/3/2023	0.031
Mean	0.08198
Std. Dev.	0.05719
Upper Lim.	0.1083
Lower Lim.	0.04482

# Confidence Interval

Constituent: Thallium (mg/L)    Analysis Run 5/4/2023 3:01 PM    View: AP 234 Confidence Intervals  
 Plant McDonough    Client: Southern Company    Data: McDonough AP

	B-56	B-82	B-83	B-88	B-92	DGWC-10
8/31/2016						0.0004 (J)
12/6/2016						0.0004 (J)
3/29/2017						0.0006 (J)
7/12/2017						0.0005 (J)
10/24/2017						0.0004 (J)
2/27/2018						<0.005
11/6/2018						<0.001 (J)
8/27/2019						0.00036 (J)
9/23/2019		9.9E-05 (J)				
10/15/2019						0.00039 (J)
10/21/2019		0.00011 (J)	7.2E-05 (J)			
3/3/2020						0.00042 (J)
8/11/2020						0.00037 (J)
8/14/2020			<0.001			
8/17/2020	0.00016 (J)	<0.001		<0.001		
9/24/2020						0.00034 (J)
9/25/2020			<0.001	<0.001		
9/28/2020	0.00023 (J)	<0.001				
3/3/2021	0.00026 (J)					
3/4/2021			<0.001			0.00042 (J)
3/5/2021				0.0002 (J)		
9/10/2021						0.00027 (J)
9/13/2021	0.00024 (J)			<0.001		
9/14/2021		<0.001				
9/15/2021					<0.001	
9/16/2021			<0.001			
1/21/2022			<0.001			
1/25/2022		<0.001				
1/26/2022					<0.001	0.00033 (J)
1/27/2022	0.00032 (J)			<0.001		
9/12/2022					0.0002 (J)	
9/13/2022			<0.001			
9/15/2022						<0.005
9/16/2022	0.00024 (J)	<0.001		<0.001		
1/31/2023					0.00021 (J)	
2/2/2023						<0.005
2/3/2023			<0.001			
2/7/2023	0.00028 (J)	<0.001		<0.001		
Mean	0.0002471	0.0007761	0.000884	0.0008857	0.0006025	0.001247
Std. Dev.	4.923E-05	0.0004145	0.0003281	0.0003024	0.000459	0.001798
Upper Lim.	0.0003056	0.001	0.001	0.001	0.001	0.001
Lower Lim.	0.0001887	9.9E-05	7.2E-05	0.0002	0.0002	0.00036

# Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 5/4/2023 3:01 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-12	DGWC-17	DGWC-19	DGWC-20	DGWC-22	DGWC-4
9/1/2016	<0.001		0.0005 (J)			
9/2/2016				<0.01	<0.001	
9/7/2016		<0.001				
12/7/2016	<0.001		0.0005 (J)	0.0006 (J)		
12/8/2016		<0.001			<0.001	
3/28/2017						<0.001
3/29/2017	8E-05 (J)		0.0004 (J)	0.0006 (J)	6E-05 (J)	
3/30/2017		0.0002 (J)				
5/12/2017						<0.001
6/15/2017						<0.001
7/11/2017						<0.001
7/12/2017	9E-05 (J)	0.0002 (J)	0.0005 (J)	0.0006 (J)		
7/13/2017					7E-05 (J)	
10/24/2017						<0.001
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)	<0.01	<0.001	
7/11/2018	<0.001	0.00017 (J)	0.0005 (J)	<0.01		
7/12/2018					<0.001	
11/6/2018						<0.001
11/7/2018	<0.001	<0.001	<0.001 (J)	<0.001 (J)	<0.001	
8/27/2019	8.9E-05 (J)	0.00018 (J)				<0.001
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	9.1E-05 (J)					7.3E-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)					<0.001
3/3/2020			0.0006 (J)		7E-05 (J)	
3/4/2020		0.00019 (J)		0.0023 (J)		
8/11/2020	<0.001		0.00059 (J)			
8/12/2020						<0.001
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)		<0.001
9/24/2020		0.00018 (J)			<0.001	
3/1/2021						<0.001
3/2/2021			0.00056 (J)	0.0014 (J)		
3/3/2021	<0.001	0.00017 (J)			<0.001	
9/9/2021	<0.001		0.00056 (J)			
9/10/2021				0.00052 (J)	<0.001	<0.001
9/13/2021		<0.001				
1/20/2022					<0.001	
1/21/2022				<0.01		
1/24/2022		<0.001				<0.001
1/25/2022	<0.001		0.00057 (J)			
9/14/2022		<0.001	0.00056 (J)			
9/15/2022	<0.001			0.001 (J)		
9/16/2022					<0.001	
9/19/2022						<0.001



# Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 5/4/2023 3:01 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-12	DGWC-17	DGWC-19	DGWC-20	DGWC-22	DGWC-4
2/3/2023						<0.001
2/6/2023	<0.001	<0.001	0.00059 (J)		<0.001	
2/7/2023				0.0018 (J)		
Mean	0.0006667	0.0004983	0.0005211	0.002996	0.0007408	0.0009455
Std. Dev.	0.0004485	0.0004121	5.728E-05	0.003884	0.0004301	0.0002248
Upper Lim.	0.001	0.001	0.0005563	0.0023	0.001	0.001
Lower Lim.	9.1E-05	0.00017	0.0004897	0.0006	7E-05	7.3E-05

# Confidence Interval

Constituent: Thallium (mg/L)    Analysis Run 5/4/2023 3:01 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					<0.001	<0.005
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	0.0006 (J)
12/8/2016	<0.001	<0.001	<0.001			
3/28/2017				0.0002 (J)		0.0007 (J)
3/29/2017					0.0002 (J)	
3/30/2017			9E-05 (J)			
3/31/2017	9E-05 (J)	0.0002 (J)				
7/11/2017				<0.001	0.0001 (J)	0.0007 (J)
7/13/2017	9E-05 (J)	0.0002 (J)	8E-05 (J)			
10/24/2017					0.0003 (J)	0.0006 (J)
10/25/2017	9E-05 (J)			<0.001		
10/26/2017		0.0003 (J)	9E-05 (J)			
2/27/2018				<0.001	0.00033 (J)	0.00038 (J)
2/28/2018	<0.001					
3/1/2018		0.00032 (J)				
3/2/2018			<0.001			
7/11/2018	<0.001					<0.005
7/12/2018		0.00031 (J)	<0.001			
11/6/2018				<0.001	<0.001 (J)	<0.005
11/7/2018	<0.001	<0.001 (J)	<0.001			
8/27/2019				<0.001		0.00053 (J)
8/28/2019	6.9E-05 (J)				0.00022 (J)	
8/29/2019		0.00025 (J)	7.8E-05 (J)			
10/16/2019				7.8E-05 (J)	0.00025 (J)	
10/17/2019	<0.001	0.00025 (J)				0.00076 (J)
10/18/2019			<0.001			
3/2/2020				6.2E-05 (J)		
3/3/2020					0.00023 (J)	0.00044 (J)
3/4/2020	<0.001	0.00021 (J)	6.8E-05 (J)			
8/11/2020						<0.005
8/12/2020		0.00018 (J)		<0.001	0.00023 (J)	
8/13/2020	<0.001		<0.001			
9/22/2020	<0.001			<0.001		0.00043 (J)
9/23/2020		0.00026 (J)	<0.001		0.0002 (J)	
3/2/2021				<0.001	0.00019 (J)	<0.005
3/3/2021	<0.001	0.00023 (J)	<0.001			
9/10/2021		0.00036 (J)	<0.001	<0.001		0.0004 (J)
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		
1/25/2022					0.00019 (J)	
1/26/2022						<0.005
9/13/2022	<0.001	0.00021 (J)	<0.001			
9/14/2022				<0.001		
9/15/2022					<0.001	
9/19/2022						<0.005
2/1/2023	0.00028 (J)					
2/3/2023		0.00022 (J)	<0.001			<0.005

# Confidence Interval

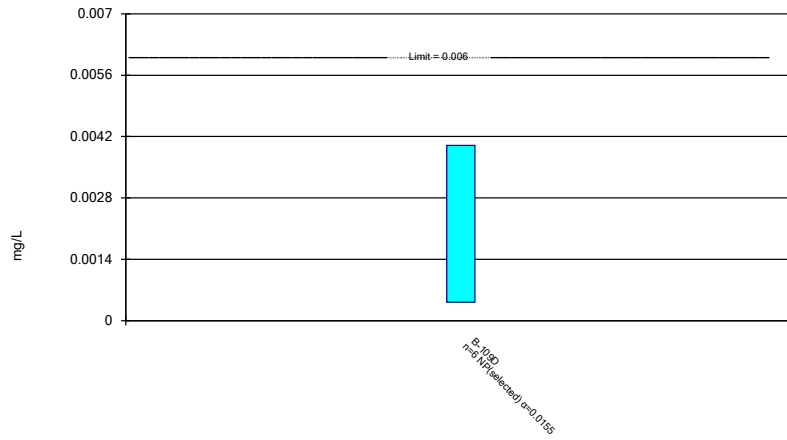
Constituent: Thallium (mg/L) Analysis Run 5/4/2023 3:01 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
2/7/2023						
Mean	0.0007566	0.0002767	0.0007448	0.0008435	0.0004488	0.00253
Std. Dev.	0.0004061	9.493E-05	0.0004235	0.0003494	0.0003699	0.002276
Upper Lim.	0.001	0.00032	0.001	0.001	0.001	0.005
Lower Lim.	0.00028	0.0002	9E-05	0.0002	0.00019	0.00044

### Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

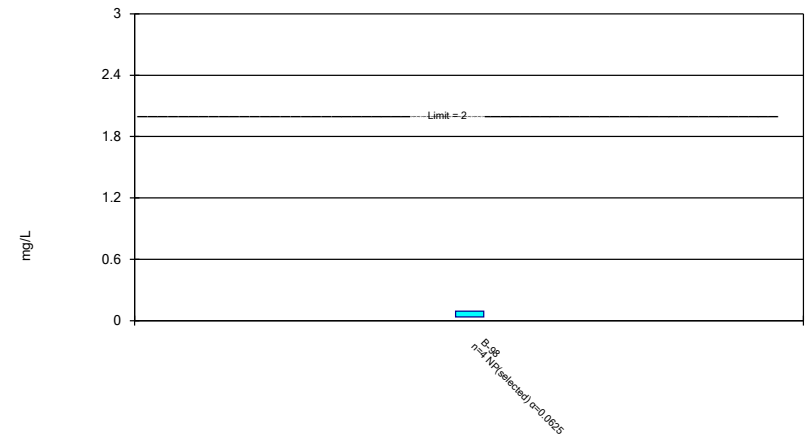


Normality testing disabled.

Constituent: Antimony Analysis Run 5/4/2023 2:57 PM View: AP 234 Confidence Intervals Nonparametric Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

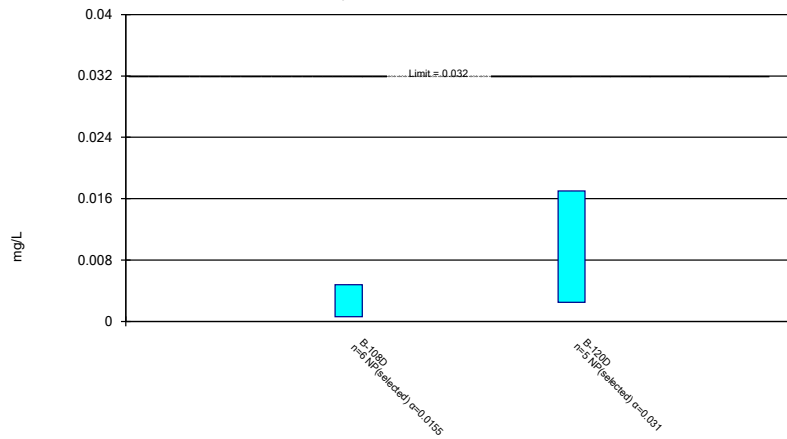


Normality testing disabled.

Constituent: Barium Analysis Run 5/4/2023 2:57 PM View: AP 234 Confidence Intervals Nonparametric Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

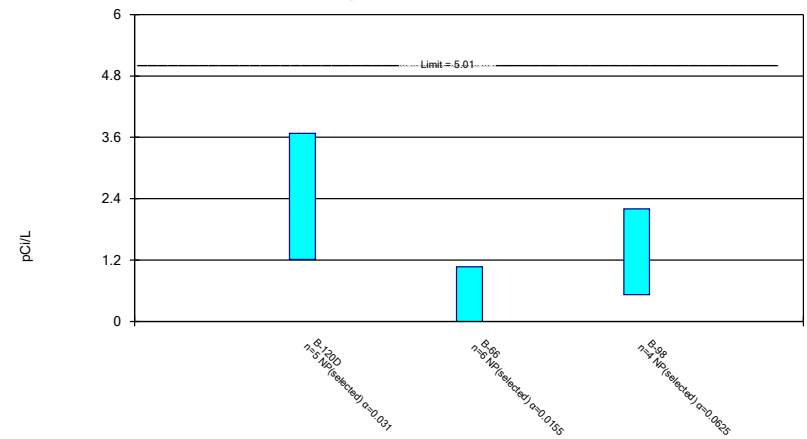


Normality testing disabled.

Constituent: Cobalt Analysis Run 5/4/2023 2:57 PM View: AP 234 Confidence Intervals Nonparametric Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

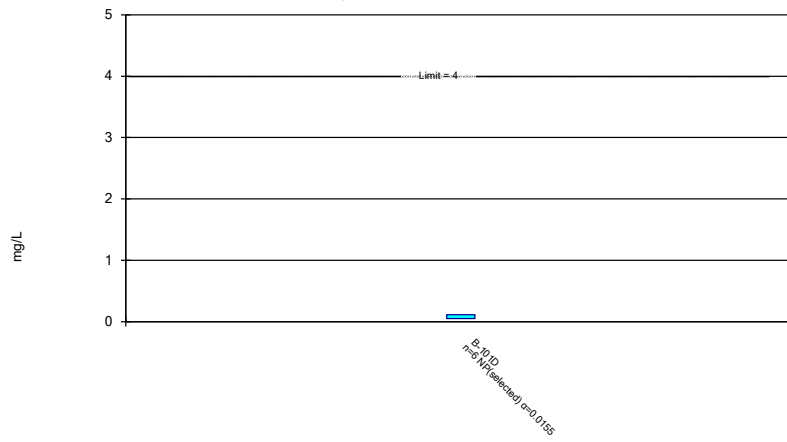


Normality testing disabled.

Constituent: Combined Radium 226 + 228 Analysis Run 5/4/2023 2:57 PM View: AP 234 Confidence Inter Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Normality testing disabled.

Constituent: Fluoride Analysis Run 5/4/2023 2:57 PM View: AP 234 Confidence Intervals Nonparametric  
Plant McDonough Client: Southern Company Data: McDonough AP

# Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 5/4/2023 3:01 PM View: AP 234 Confidence Intervals Nonparametric  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-109D
1/13/2021	0.00042 (J)
3/8/2021	0.00084 (J)
9/10/2021	0.004
1/20/2022	<0.003
9/20/2022	<0.003
2/6/2023	<0.003
Mean	0.002377
Std. Dev.	0.001414
Upper Lim.	0.004
Lower Lim.	0.00042

# Confidence Interval

Constituent: Barium (mg/L) Analysis Run 5/4/2023 3:01 PM View: AP 234 Confidence Intervals Nonparametric  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-98
9/15/2021	0.082
1/26/2022	0.035
9/13/2022	0.092
1/31/2023	0.041
Mean	0.0625
Std. Dev.	0.02869
Upper Lim.	0.092
Lower Lim.	0.035

# Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 5/4/2023 3:01 PM View: AP 234 Confidence Intervals Nonparametric  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-108D	B-120D
12/9/2020	0.0048 (J)	
3/4/2021	0.0017 (J)	
4/15/2021		0.017
9/14/2021	0.0017 (J)	0.0055
1/20/2022		0.0045 (J)
1/24/2022	0.00061 (J)	
9/15/2022	0.001 (J)	
9/19/2022		0.0027 (J)
2/3/2023		0.0025 (J)
2/7/2023	0.001 (J)	
Mean	0.001802	0.00644
Std. Dev.	0.001531	0.006035
Upper Lim.	0.0048	0.017
Lower Lim.	0.00061	0.0025



# Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/4/2023 3:01 PM View: AP 234 Confidence Intervals Nonparametric  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-66	B-98
1/30/2019		0.975 (U)	
10/21/2019		1.07 (U)	
4/15/2021	2.31		
9/14/2021	3.68	0.421 (U)	
9/15/2021			2.2
1/20/2022	1.21 (U)		
1/25/2022		0 (U)	
1/26/2022			0.52 (U)
9/13/2022			2.03
9/16/2022		0.832 (U)	
9/19/2022	2.22		
1/31/2023			0.873 (U)
2/3/2023	1.81		
2/7/2023		0.764 (U)	
Mean	2.246	0.677	1.406
Std. Dev.	0.9117	0.3997	0.8344
Upper Lim.	3.68	1.07	2.2
Lower Lim.	1.21	0	0.52

# Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 5/4/2023 3:01 PM View: AP 234 Confidence Intervals Nonparametric  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-101D
1/12/2021	0.052 (J)
3/5/2021	0.053 (J)
9/13/2021	0.051 (J)
1/26/2022	<0.1
9/16/2022	0.099 (J)
2/3/2023	0.11
Mean	0.0775
Std. Dev.	0.0282
Upper Lim.	0.11
Lower Lim.	0.051

FIGURE I.

# Appendix IV Trend Tests - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 5/4/2023, 3:09 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Beryllium (mg/L)	DGWA-70A (bg)	-0.0005159	-82	-68	Yes	18	44.44	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-47	-0.0008495	-74	-68	Yes	18	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-48	-0.0003961	-92	-68	Yes	18	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWA-53 (bg)	-0.004011	-97	-68	Yes	18	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-10	-0.02202	-86	-63	Yes	17	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-47	-0.03923	-105	-68	Yes	18	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-48	-0.04106	-134	-68	Yes	18	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-8	-0.01429	-100	-63	Yes	17	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-9	0.01916	101	68	Yes	18	0	n/a	n/a	0.01	NP
Combined Radium 226 + 228 (pCi/L)	DGWA-53 (bg)	-0.5192	-83	-68	Yes	18	0	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWC-47	-0.005455	-99	-68	Yes	18	0	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWC-48	-0.006366	-107	-68	Yes	18	0	n/a	n/a	0.01	NP

# Appendix IV Trend Tests - All Results

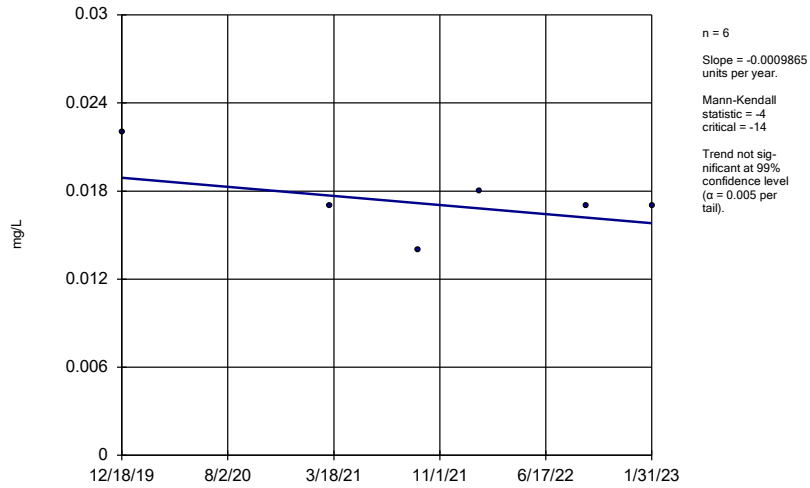
Plant McDonough    Client: Southern Company    Data: McDonough AP    Printed 5/4/2023, 3:09 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Arsenic (mg/L)	DGWA-53 (bg)	0	-2	-68	No	18	55.56	n/a	n/a	0.01	NP
Arsenic (mg/L)	DGWA-70A (bg)	0	-28	-68	No	18	83.33	n/a	n/a	0.01	NP
Arsenic (mg/L)	DGWA-71 (bg)	0	25	63	No	17	82.35	n/a	n/a	0.01	NP
Arsenic (mg/L)	DGWC-9	-0.0006814	-17	-68	No	18	5.556	n/a	n/a	0.01	NP
Beryllium (mg/L)	B-92	-0.0009865	-4	-14	No	6	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	B-93	0.0009953	14	21	No	8	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWA-53 (bg)	0	-17	-68	No	18	94.44	n/a	n/a	0.01	NP
<b>Beryllium (mg/L)</b>	<b>DGWA-70A (bg)</b>	<b>-0.0005159</b>	<b>-82</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>44.44</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Beryllium (mg/L)	DGWA-71 (bg)	-0.00001433	-47	-68	No	18	27.78	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-10	0.0003134	23	63	No	17	0	n/a	n/a	0.01	NP
<b>Beryllium (mg/L)</b>	<b>DGWC-47</b>	<b>-0.0008495</b>	<b>-74</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Beryllium (mg/L)</b>	<b>DGWC-48</b>	<b>-0.0003961</b>	<b>-92</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Beryllium (mg/L)	DGWC-5	0.000423	48	63	No	17	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-9	-0.00002099	-6	-68	No	18	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	B-104D	-0.009707	-4	-18	No	7	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	B-56	0.005214	16	18	No	7	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	B-63	-0.003999	-11	-21	No	8	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	B-93	-0.002185	-7	-21	No	8	0	n/a	n/a	0.01	NP
<b>Cobalt (mg/L)</b>	<b>DGWA-53 (bg)</b>	<b>-0.004011</b>	<b>-97</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Cobalt (mg/L)	DGWA-70A (bg)	0	37	68	No	18	55.56	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWA-71 (bg)	0	50	63	No	17	70.59	n/a	n/a	0.01	NP
<b>Cobalt (mg/L)</b>	<b>DGWC-10</b>	<b>-0.02202</b>	<b>-86</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Cobalt (mg/L)	DGWC-19	0	-1	-68	No	18	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-20	0.06069	62	68	No	18	0	n/a	n/a	0.01	NP
<b>Cobalt (mg/L)</b>	<b>DGWC-47</b>	<b>-0.03923</b>	<b>-105</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Cobalt (mg/L)</b>	<b>DGWC-48</b>	<b>-0.04106</b>	<b>-134</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Cobalt (mg/L)</b>	<b>DGWC-8</b>	<b>-0.01429</b>	<b>-100</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Cobalt (mg/L)</b>	<b>DGWC-9</b>	<b>0.01916</b>	<b>101</b>	<b>68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Combined Radium 226 + 228 (pCi/L)	B-104D	-2.931	-9	-18	No	7	0	n/a	n/a	0.01	NP
Combined Radium 226 + 228 (pCi/L)	B-109D	2.863	11	14	No	6	0	n/a	n/a	0.01	NP
<b>Combined Radium 226 + 228 (pCi/L)</b>	<b>DGWA-53 (bg)</b>	<b>-0.5192</b>	<b>-83</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Combined Radium 226 + 228 (pCi/L)	DGWA-70A (bg)	-0.001028	-1	-74	No	19	0	n/a	n/a	0.01	NP
Combined Radium 226 + 228 (pCi/L)	DGWA-71 (bg)	-0.004534	-4	-68	No	18	0	n/a	n/a	0.01	NP
Lithium (mg/L)	B-120D	-0.009492	-8	-12	No	5	0	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWA-53 (bg)	-0.0001042	-24	-68	No	18	5.556	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWA-70A (bg)	0	24	68	No	18	83.33	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWA-71 (bg)	-0.00009524	-54	-63	No	17	17.65	n/a	n/a	0.01	NP
<b>Lithium (mg/L)</b>	<b>DGWC-47</b>	<b>-0.005455</b>	<b>-99</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Lithium (mg/L)</b>	<b>DGWC-48</b>	<b>-0.006366</b>	<b>-107</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>



### Sen's Slope Estimator

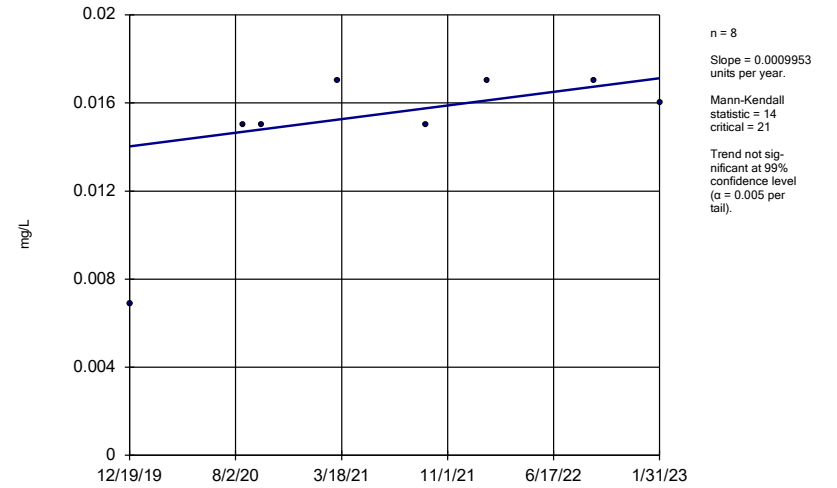
B-92



Constituent: Beryllium Analysis Run 5/4/2023 3:07 PM View: AP 234 Appendix IV Trend Tests  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

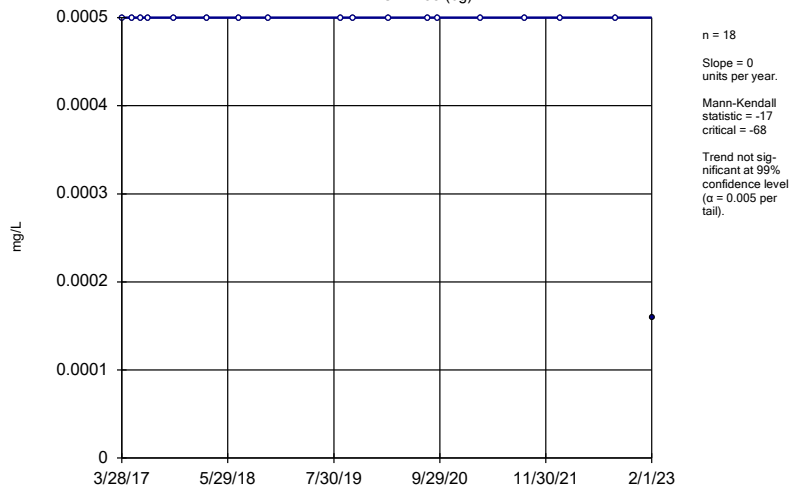
B-93



Constituent: Beryllium Analysis Run 5/4/2023 3:07 PM View: AP 234 Appendix IV Trend Tests  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

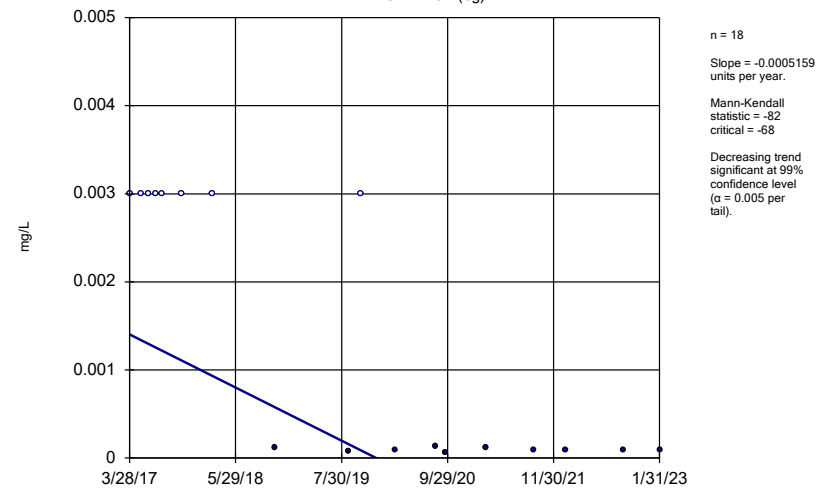
DGWA-53 (bg)



Constituent: Beryllium Analysis Run 5/4/2023 3:07 PM View: AP 234 Appendix IV Trend Tests  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

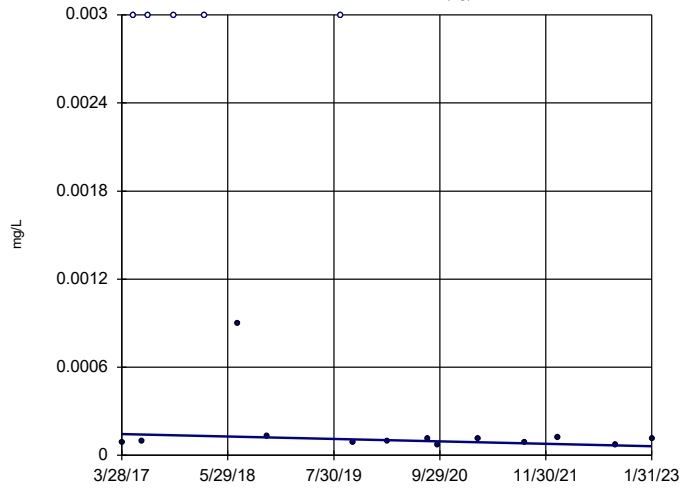
DGWA-70A (bg)



Constituent: Beryllium Analysis Run 5/4/2023 3:07 PM View: AP 234 Appendix IV Trend Tests  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWA-71 (bg)

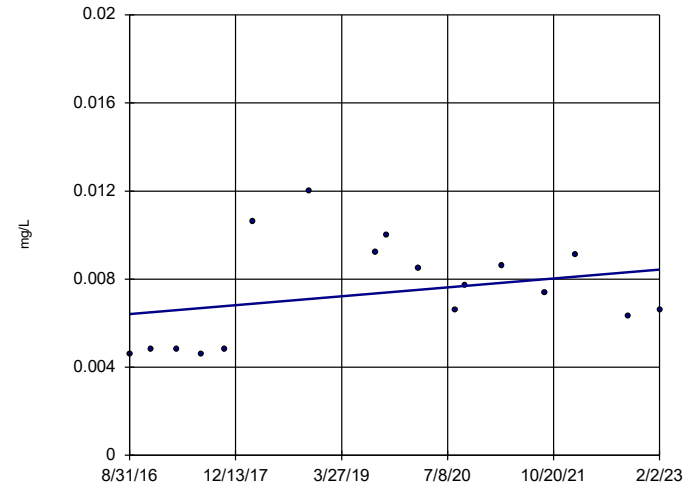


n = 18  
Slope = -0.0001433  
units per year.  
Mann-Kendall  
statistic = -47  
critical = -68  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Beryllium Analysis Run 5/4/2023 3:07 PM View: AP 234 Appendix IV Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-10

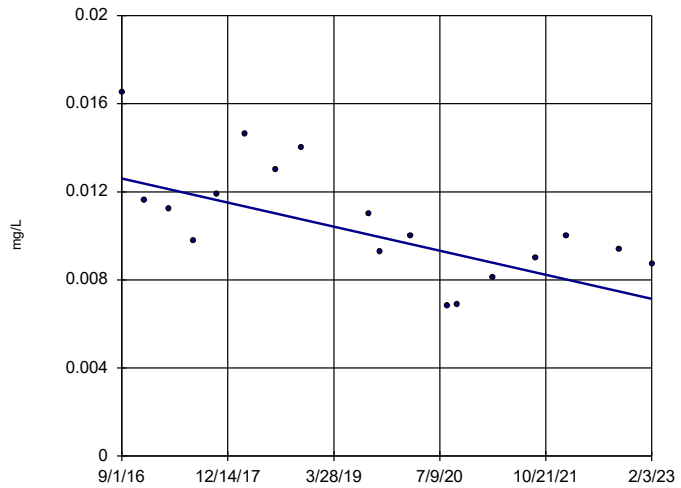


n = 17  
Slope = 0.0003134  
units per year.  
Mann-Kendall  
statistic = 23  
critical = 63  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Beryllium Analysis Run 5/4/2023 3:07 PM View: AP 234 Appendix IV Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-47

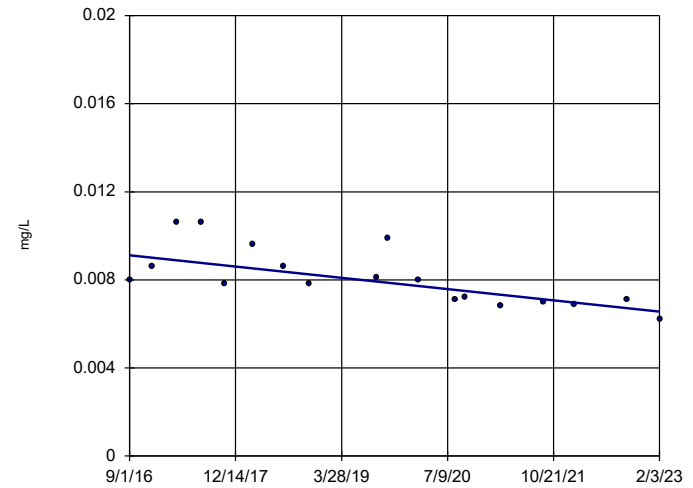


n = 18  
Slope = -0.0008495  
units per year.  
Mann-Kendall  
statistic = -74  
critical = -68  
Decreasing trend  
significant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Beryllium Analysis Run 5/4/2023 3:07 PM View: AP 234 Appendix IV Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-48



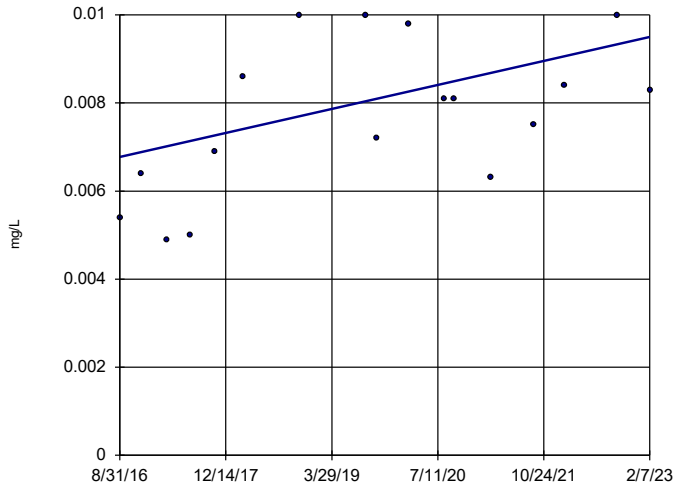
n = 18  
Slope = -0.0003961  
units per year.  
Mann-Kendall  
statistic = -92  
critical = -68  
Decreasing trend  
significant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Beryllium Analysis Run 5/4/2023 3:07 PM View: AP 234 Appendix IV Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP



### Sen's Slope Estimator

DGWC-5

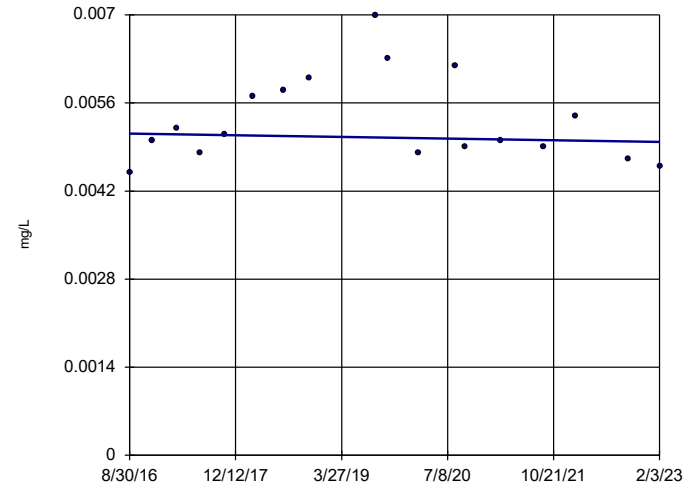


n = 17  
 Slope = 0.000423  
 units per year.  
 Mann-Kendall  
 statistic = 48  
 critical = 63  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Beryllium Analysis Run 5/4/2023 3:07 PM View: AP 234 Appendix IV Trend Tests  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-9

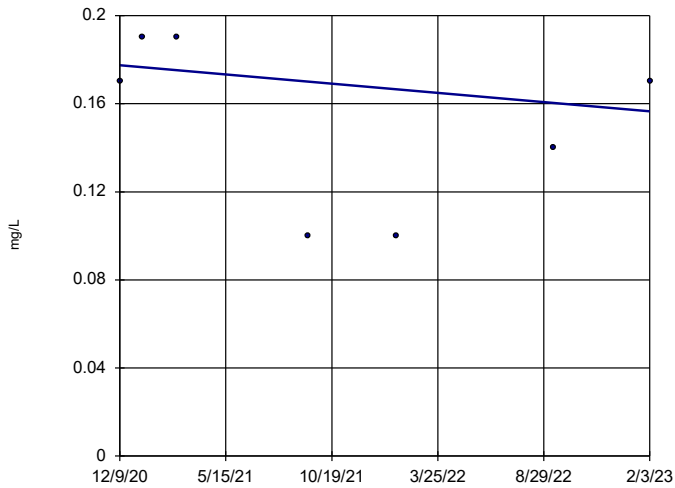


n = 18  
 Slope = -0.00002099  
 units per year.  
 Mann-Kendall  
 statistic = -6  
 critical = -68  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Beryllium Analysis Run 5/4/2023 3:07 PM View: AP 234 Appendix IV Trend Tests  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

B-104D

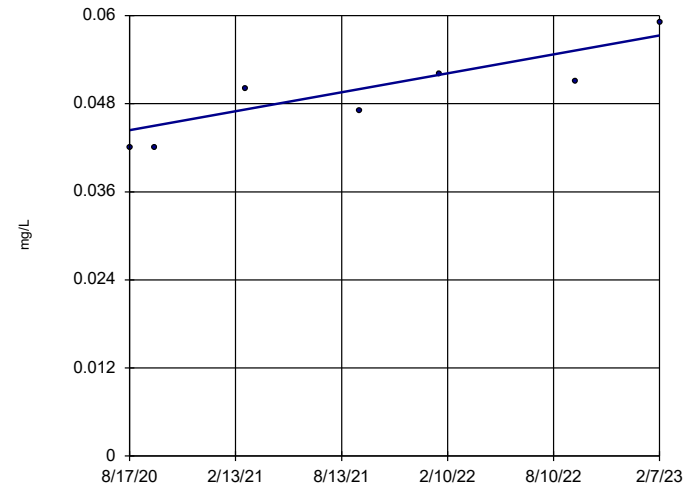


n = 7  
 Slope = -0.009707  
 units per year.  
 Mann-Kendall  
 statistic = -4  
 critical = -18  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Cobalt Analysis Run 5/4/2023 3:07 PM View: AP 234 Appendix IV Trend Tests  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

B-56

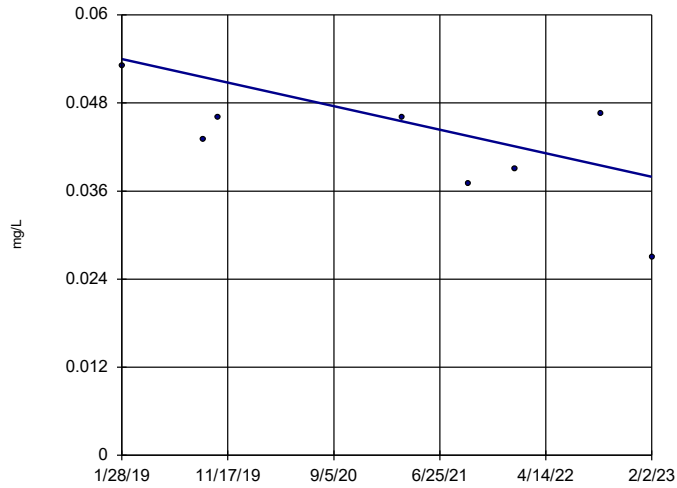


n = 7  
 Slope = 0.005214  
 units per year.  
 Mann-Kendall  
 statistic = 16  
 critical = 18  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Cobalt Analysis Run 5/4/2023 3:07 PM View: AP 234 Appendix IV Trend Tests  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

B-63

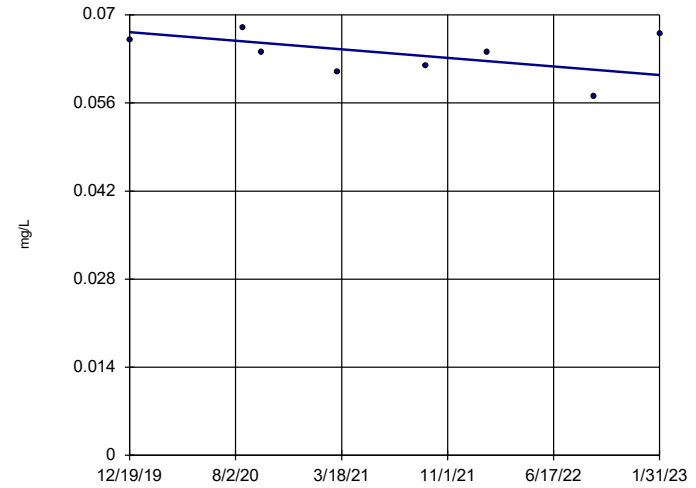


n = 8  
 Slope = -0.003999 units per year.  
 Mann-Kendall statistic = -11  
 critical = -21  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 5/4/2023 3:07 PM View: AP 234 Appendix IV Trend Tests  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

B-93

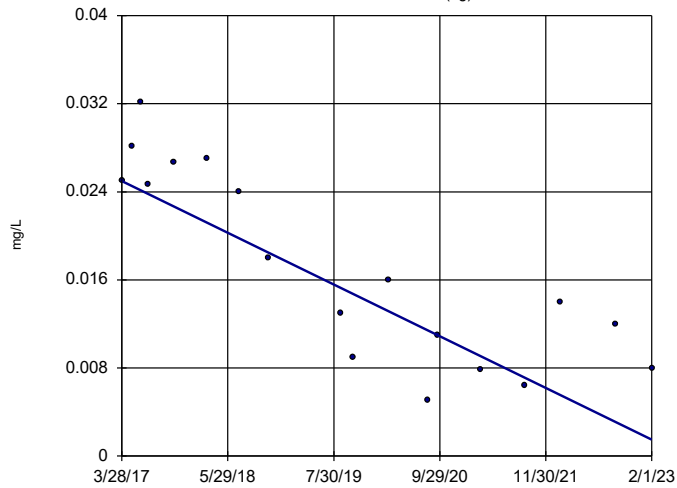


n = 8  
 Slope = -0.002185 units per year.  
 Mann-Kendall statistic = -7  
 critical = -21  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 5/4/2023 3:07 PM View: AP 234 Appendix IV Trend Tests  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWA-53 (bg)

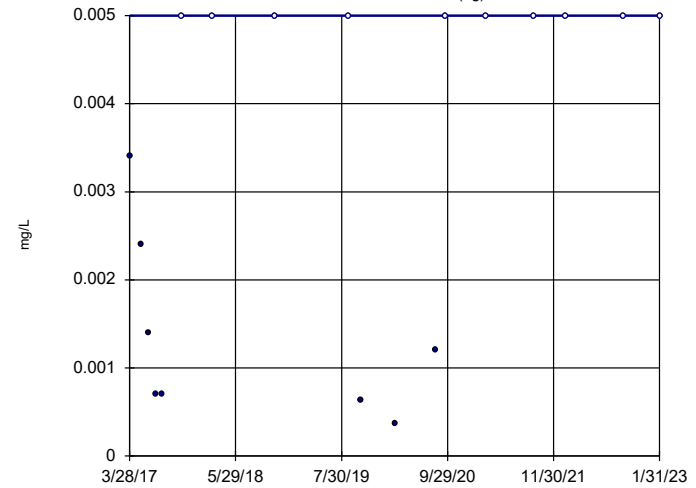


n = 18  
 Slope = -0.004011 units per year.  
 Mann-Kendall statistic = -97  
 critical = -68  
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 5/4/2023 3:07 PM View: AP 234 Appendix IV Trend Tests  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWA-70A (bg)

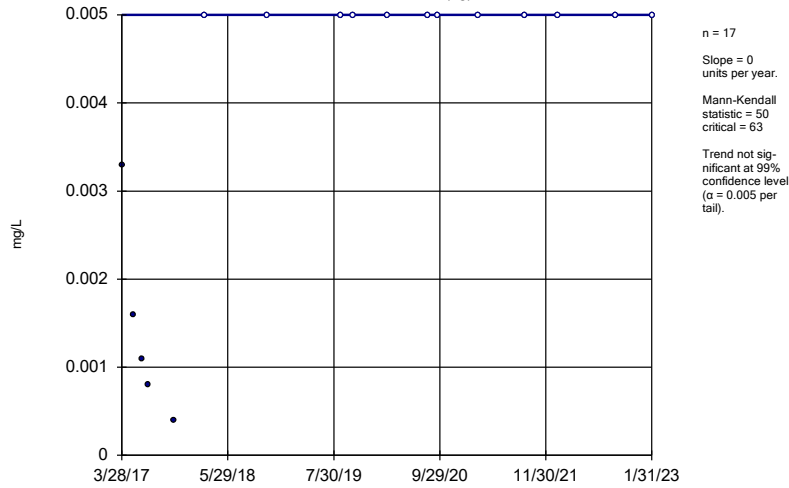


n = 18  
 Slope = 0 units per year.  
 Mann-Kendall statistic = 37  
 critical = 68  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 5/4/2023 3:07 PM View: AP 234 Appendix IV Trend Tests  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

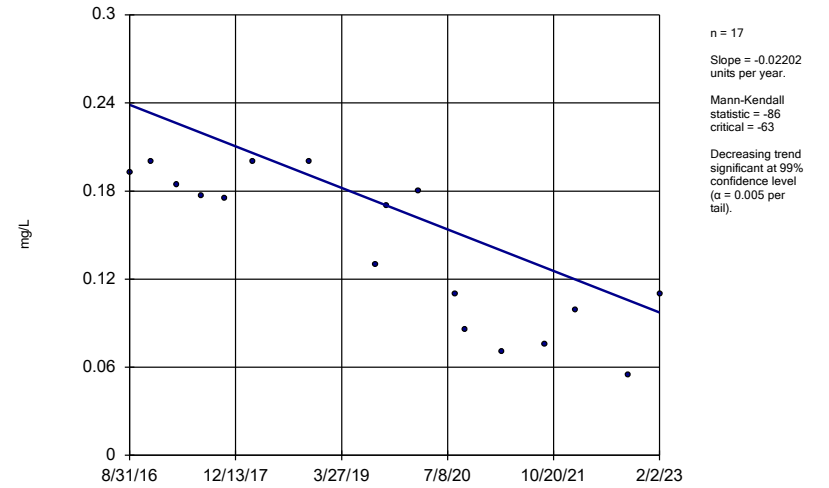
DGWA-71 (bg)



Constituent: Cobalt Analysis Run 5/4/2023 3:07 PM View: AP 234 Appendix IV Trend Tests  
 Plant McDonough Client: Southern Company Data: McDonough AP

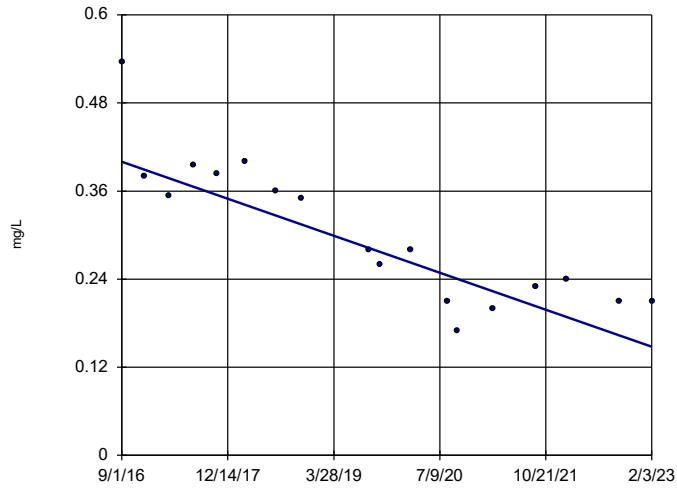
### Sen's Slope Estimator

DGWC-10



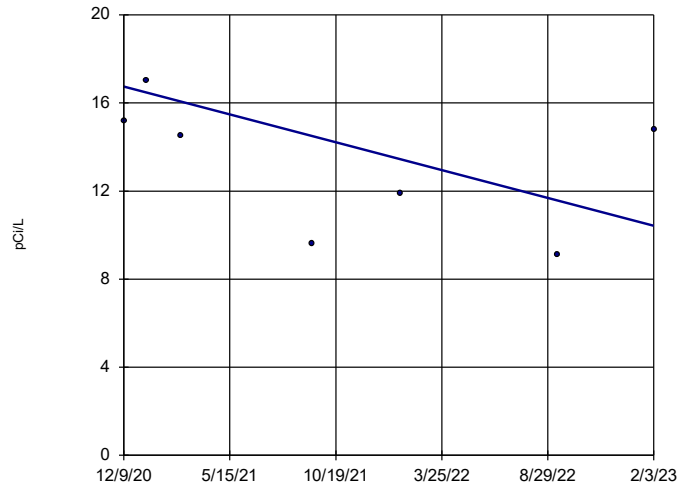
### Sen's Slope Estimator

DGWC-47



### Sen's Slope Estimator

B-104D

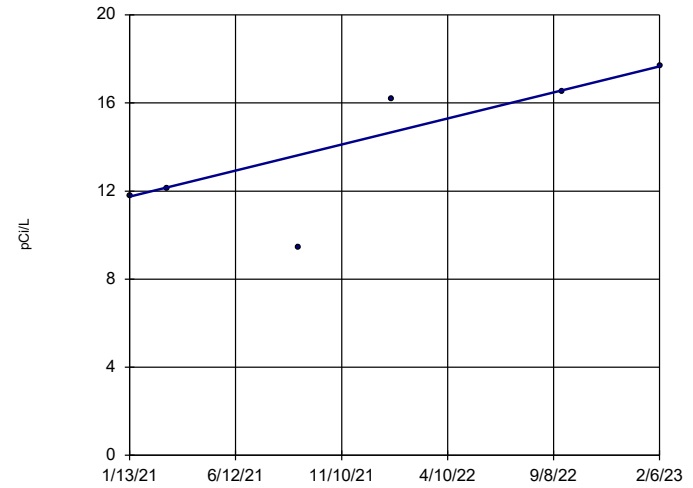


n = 7  
 Slope = -2.931  
 units per year.  
 Mann-Kendall  
 statistic = -9  
 critical = -18  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Combined Radium 226 + 228 Analysis Run 5/4/2023 3:07 PM View: AP 234 Appendix IV Tre  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

B-109D

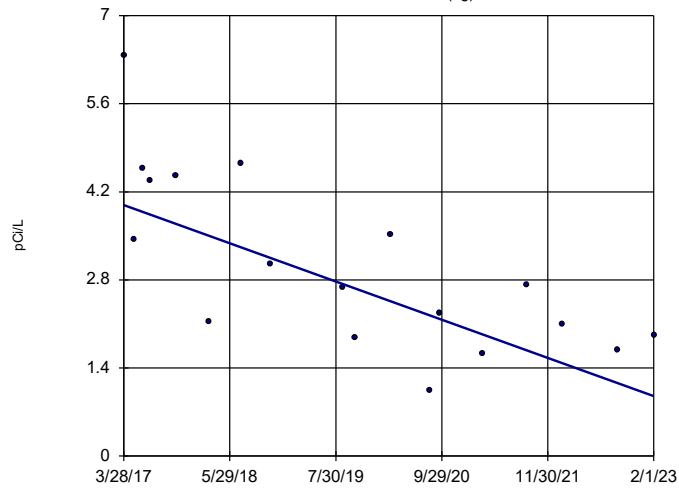


n = 6  
 Slope = 2.863  
 units per year.  
 Mann-Kendall  
 statistic = 11  
 critical = 14  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Combined Radium 226 + 228 Analysis Run 5/4/2023 3:07 PM View: AP 234 Appendix IV Tre  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWA-53 (bg)

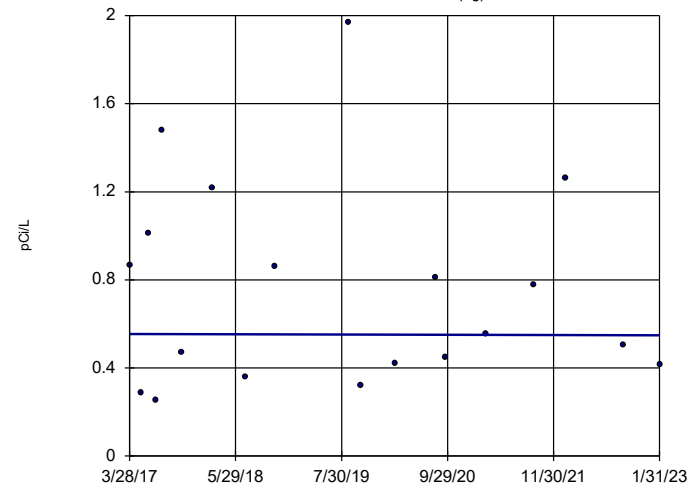


n = 18  
 Slope = -0.5192  
 units per year.  
 Mann-Kendall  
 statistic = -83  
 critical = -68  
 Decreasing trend  
 significant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Combined Radium 226 + 228 Analysis Run 5/4/2023 3:07 PM View: AP 234 Appendix IV Tre  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWA-70A (bg)

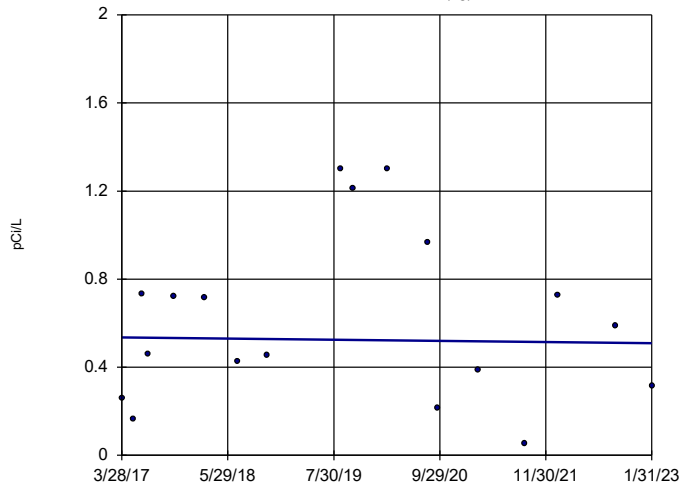


n = 19  
 Slope = -0.001028  
 units per year.  
 Mann-Kendall  
 statistic = -1  
 critical = -74  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Combined Radium 226 + 228 Analysis Run 5/4/2023 3:07 PM View: AP 234 Appendix IV Tre  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWA-71 (bg)

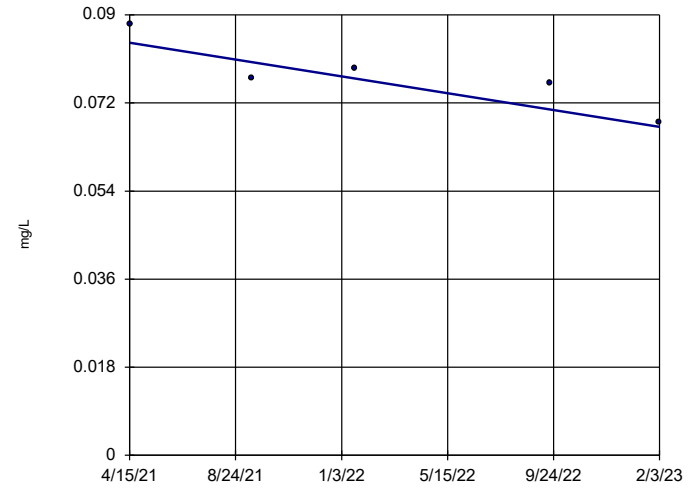


n = 18  
 Slope = -0.004534 units per year.  
 Mann-Kendall statistic = -4  
 critical = -68  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Combined Radium 226 + 228 Analysis Run 5/4/2023 3:08 PM View: AP 234 Appendix IV Trend Tests  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

B-120D

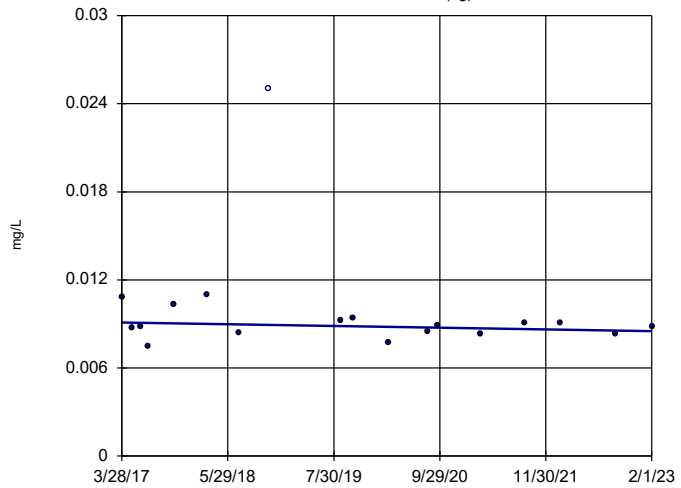


n = 5  
 Slope = -0.009492 units per year.  
 Mann-Kendall statistic = -8  
 critical = -12  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Lithium Analysis Run 5/4/2023 3:08 PM View: AP 234 Appendix IV Trend Tests  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWA-53 (bg)

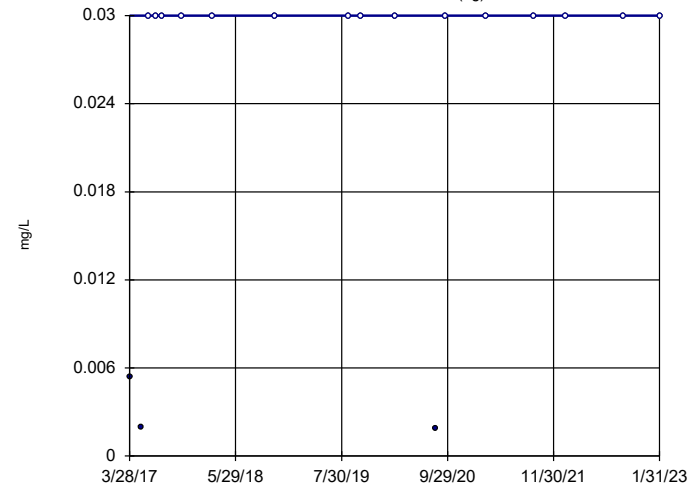


n = 18  
 Slope = -0.0001042 units per year.  
 Mann-Kendall statistic = -24  
 critical = -68  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Lithium Analysis Run 5/4/2023 3:08 PM View: AP 234 Appendix IV Trend Tests  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWA-70A (bg)

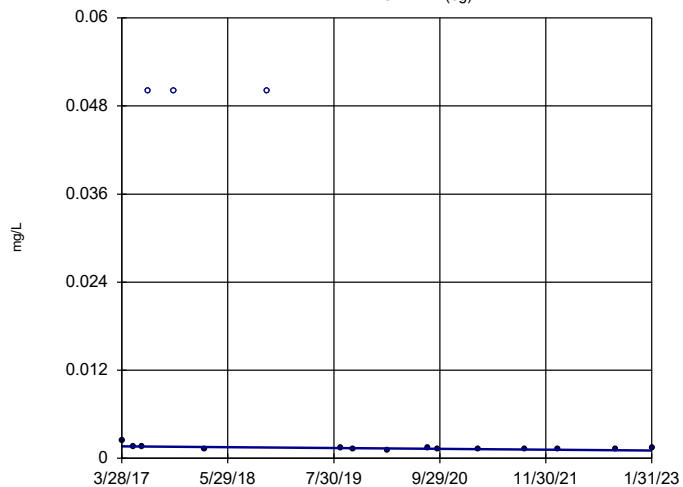


n = 18  
 Slope = 0 units per year.  
 Mann-Kendall statistic = 24  
 critical = 68  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Lithium Analysis Run 5/4/2023 3:08 PM View: AP 234 Appendix IV Trend Tests  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWA-71 (bg)

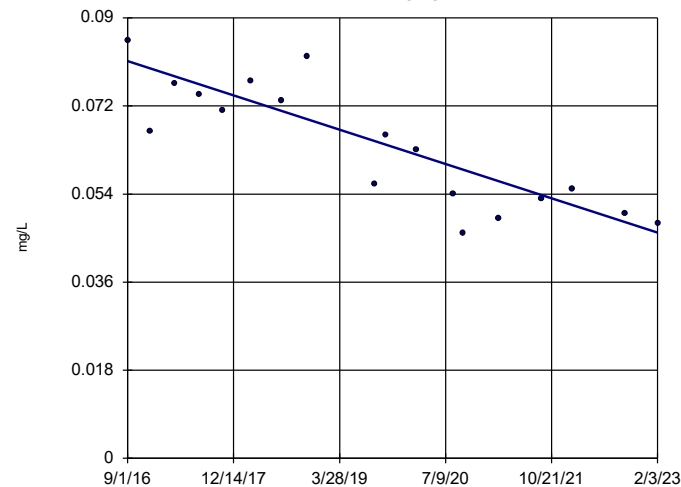


n = 17  
Slope = -0.00009524  
units per year.  
Mann-Kendall  
statistic = -54  
critical = -63  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Lithium Analysis Run 5/4/2023 3:08 PM View: AP 234 Appendix IV Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-47

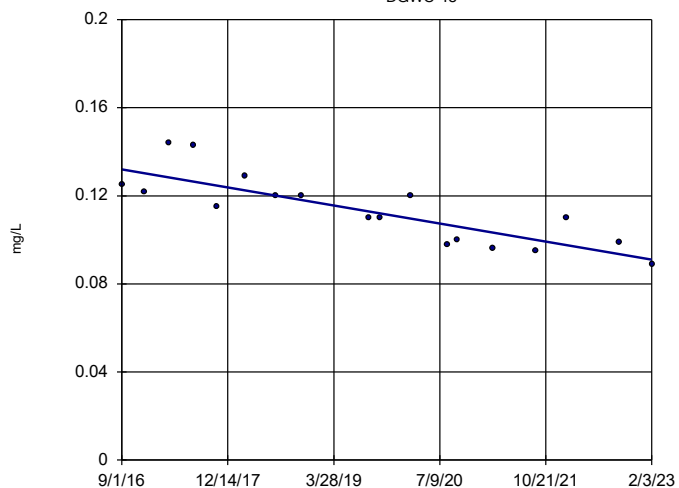


n = 18  
Slope = -0.005455  
units per year.  
Mann-Kendall  
statistic = -99  
critical = -68  
Decreasing trend  
significant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Lithium Analysis Run 5/4/2023 3:08 PM View: AP 234 Appendix IV Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-48



n = 18  
Slope = -0.006366  
units per year.  
Mann-Kendall  
statistic = -107  
critical = -68  
Decreasing trend  
significant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Lithium Analysis Run 5/4/2023 3:08 PM View: AP 234 Appendix IV Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

**APPENDIX E**

# Well Installation (B-125D) Report





May 30, 2023

Project No. GL166849622

**Ms. Lauren Hartley, PG**  
Southern Company Services  
241 Ralph McGill Blvd NE  
Atlanta, GA 30308  
laucoker@southernco.com

**SUBJECT: WELL INSTALLATION (B-125D) REPORT  
GEORGIA POWER COMPANY - PLANT MCDONOUGH, SMYRNA, GEORGIA**

Dear Ms. Hartley:

WSP USA Inc. (WSP) is submitting this *Well Installation (B-125D) Report* to Southern Company Services, Inc. (SCS) and Georgia Power Company (Georgia Power), to document the construction of one monitoring well at Plant McDonough in Smyrna, Georgia (Site). Monitoring well construction activities were performed in general accordance with the standards described in the United States Environmental Protection Agency, Region 4 Science and Ecosystem Support Division, Operating Procedure for *Design and Installation of Monitoring Wells* (SESDGUID-101-R2 January 16, 2018) and the Georgia Water Wells Standards Act of 1985. The installation of the monitoring well was conducted under the oversight and direction of Chris Tidwell, a Georgia Registered Professional Geologist (PG).

The field activities for this investigation were performed from March through April 2023. The field work consisted of the installation and development of one (1) monitoring well. Metro Engineering & Surveying (Metro) conducted a survey of the monitoring well on May 4, 2023. A summary of the activities is presented below. Figure 1 presents the location of the newly installed monitoring well.

### **Monitoring Well Drilling and Construction Activities**

On March 13 through March 31, 2023, monitoring B-125D was drilled and installed by Cascade Drilling, LP, under contract to SCS. Cascade has a current and valid bond with the Water Wells Standards Advisory Council for the State of Georgia (Appendix A).

An experienced WSP professional geologist registered to practice in the state of Georgia was present on site to oversee and record the drilling and well construction. Rotasonic drilling techniques were employed for borehole advancement. 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 overdrive casing. During the drilling, continuous core samples were collected and logged in the field for lithologic and geotechnical properties. Prior to drilling, the drill rig and the downhole equipment were steam cleaned. The boring (lithologic) logs for B-125D are included in Appendix B. Borehole geophysics were conducted on the borehole for well B-125D to identify the depth of the well screen placement in the bedrock interval at the well location.

WSP USA Inc.  
5170 Peachtree Road, Suite 300 Building  
100 Atlanta, Georgia 30341  
+1 248 295-0135

wsp.com



## **Borehole Geophysics**

Borehole geophysics was conducted in the borehole for well B-125D to identify potential water-producing fractures to aid in the placement of the well screen. Geophysical tests included acoustic televiwer, caliper, heat pulse flow meter, fluid temperature, and fluid conductivity. Fluid temperature and resistivity remained relatively consistent throughout the borehole, though a notable decrease in the fluid resistivity was observed from approximately 122.5 feet below ground surface (bgs) to the bottom of the borehole. The heat pulse flow meter (HPFM) data indicated that groundwater flow from the detected fracture zones was mostly negligible, although two zones indicated minor upward flow, ranging from 0.02 up to 0.05 gallons per minute (gpm) under ambient conditions from 99.5 to 113.0 feet bgs. Based on the geophysics data the well screen was placed at 135.1 to 145.1 feet, bgs. Borehole geophysical logs are included in Appendix C.

## **Well Construction**

Following the completion of the geophysics, monitoring well B-125D was constructed within the borehole. The total well depth for B-125D is 145.4 feet, bgs, including the well end cap. The depth of the screen and total well depth was selected based on the results of the geophysics borehole logging. The construction data are summarized in Table 1, and the location of the monitoring well is provided in Figure 1.

The well was constructed using factory-cleaned and sealed Schedule 40 polyvinyl chloride (PVC) products with flush-threaded fittings. The PVC products used were American Society for Testing and Materials (ASTM) and National Sanitation Foundation (NSF) rated. Monitoring well B-125D was constructed with a 10-foot section of 4-inch outside diameter (OD) and 2-inch inside diameter (ID), flush-threaded, with 0.010-inch factory-slotted PVC, U-Pack well screen. The annulus of the U-Pack screen section was filled with No. 2 filter sand, prior to insertion into the borehole. The screen was placed near the bottom of the borehole, with the remainder of the well casing 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 the well casing pipe to provide a 3-inch sump/sediment trap, and the top of the well casing extended to approximately 2.8 feet above grade. Construction details for the monitoring well are shown on the boring/construction logs in Appendix B.

Following placement of the screen and casing, the annular space in the borehole adjacent to the screen was filled with US Standard Sieve size No. 2 filter pack sand as appropriate for the formation. The filter pack sand was placed into the borehole using the tremie-pipe method and extended approximately 2 to 3 feet above the depth of the top of the well screen. A bentonite-pellet seal, consisting of 3/8-inch diameter coated bentonite pellets, approximately 4.6 feet thick, was then placed on top of the sand filter pack by slowly pouring the material down the borehole and tamping it into place. The bentonite was hydrated with potable water and allowed to cure for more than 12 hours prior to grouting the well.

Following hydration of the bentonite, the remaining annular space was grouted with an AquaGuard® bentonite grout mixture to approximately two feet below ground surface using the tremie method and low-pressure injection. 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 slows the bentonite curing so that proper placement can be achieved. A water-tight locking cap with a hole for pressure-equilibrium was installed on top of the PVC well casing. A mark was installed on the top of the PVC casing to be used for reference during future survey and water-level measurements. The monitoring well surface completion consisted of a locked, anodized aluminum protective post casing and a 4-foot by 4-foot by 4-inch concrete pad with an engraved metal tag showing the well



name. The annular space of the aluminum protective casing was filled with pea gravel to approximately two inches from top of PVC. A weep hole was drilled into the lower side of the protective casing to allow for drainage.

### **Monitoring Well Development Activities**

The newly installed monitoring well was developed on April 3 through 5, 2023 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* (SESDGUID-101-R2 January 16, 2018). The monitoring well was 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 measured and recorded using field-calibrated water quality equipment. AquaTroll® multimeter and a Hach turbidimeter were used for measuring water quality parameters. Equipment calibration forms and development forms are included in Appendix B with development details summarized in Table 2. Development was terminated when water quality parameters stabilized.

During development, monitoring well B-125D was pumped dry a total of three times and allowed to recharge overnight for three consecutive days. A total of 155 gallons of water was purged from the well, during development. Water level measurements were collected using a decontaminated electronic water level indicator, referenced to a permanent marking at the top of the PVC casing and recorded to within 0.01 foot. The water quality parameters and water levels measured on April 5, 2023 had stabilized, with the exception of turbidity. Due to low water production during well development, the development was discontinued prior to reaching the turbidity goal of 5 NTUs. However, during low flow sampling, the turbidity requirement was met.

### **Monitoring Well Survey**

The newly installed monitoring well was surveyed in early May 2023 by Metro Engineering & Surveying Company, Inc. The top of the PVC casing at the reference mark and the survey nail in the concrete pad were surveyed to 0.5-foot horizontal tolerance referenced to the Georgia State Plane, West Zone, NAD83 (2011) and 0.01-foot vertical tolerance referenced to the North America Vertical Datum of 1988 (NAVD88). Surveyed coordinates and elevations are presented on the boring/construction diagrams and on Table 1. The certified surveyor's report, dated May 8, 2023 is attached as Appendix D.



**Certification**

We appreciate the opportunity to assist Southern Company Services, Inc. and Georgia Power with this project. Should you have any questions or require additional information, please contact the undersigned at (770) 496-1893.

Sincerely,

**WSP USA INC.**

Dawn L. Prell, CPG  
*Senior Consultant, Hydrogeologist*

I certify that I am a qualified ground-water scientist who has received a baccalaureate or post-graduate degree in the natural sciences or engineering and have sufficient training and experience in groundwater hydrology and related fields, as demonstrated by state registration and completion of accredited university courses, that enable me to make sound professional judgments regarding groundwater monitoring and contaminant fate and transport. I further certify that this report was prepared by myself or by a subordinate working under my direction. We certify that the information included is to the best of our knowledge and belief, true, accurate and complete. In preparing this report, we have relied on information provided by Southern Company Services and Georgia Power.



Christopher Tidwell, PG  
Georgia Registered Professional Geologist No. 2377

- Attachments: Figure 1: Monitoring Well Location Map
- Table 1: Summary of Monitoring Well Construction Details
- Table 2: Summary of Monitoring Well Development
- Appendix A: Cascade Drilling Bond
- Appendix B: Boring Logs/Construction Diagrams, Development Forms and Calibration Logs
- Appendix C: Geophysical Record of Borehole B-125D
- Appendix D: Certified Well Survey

115 | 1

Figure



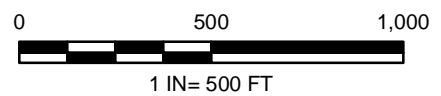
**LEGEND**

- AP-2, 3/4 DETECTION MONITORING WELL
- UPGRADIENT WELL
- ASSESSMENT MONITORING WELL
- PERMIT BOUNDARY
- PROPERTY BOUNDARY

**NOTES**

**REFERENCE**

1. AERIAL IMAGE DATED NOVEMBER 2019 FROM GOOGLE EARTH AND AUGUST 31, 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, MAY 2021, AND MAY 2023.



CLIENT  
**GEORGIA POWER COMPANY**  
 PLANT MCDONOUGH

PROJECT  
 WELL INSTALLATION (B-125D) REPORT  
 PLANT MCDONOUGH-ATKINSON CCR UNIT AP-2 AND 3/4

TITLE  
**MONITORING WELL LOCATION MAP**

CONSULTANT	YYYY-MM-DD	2023-05-09
	PREPARED	SEB
	DESIGN	SEB
	REVIEW	BAS
	APPROVED	RPK

Path: C:\Users\abradle\OneDrive\Associates\166849622\SCS Plant McDonough GW Cons Svcs GA - 800\_Shapefiles\MXD\AsstPonds\_2.mxd4 - Well locationMap\_SEB.mxd

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



## Tables

**TABLE 1**  
**SUMMARY OF MONITORING WELL CONSTRUCTION DETAILS**  
 Georgia Power Company - Plant McDonough

Borehole ID	Latitude	Longitude	NAD 83 Northing <sup>[1]</sup>	NAD 83 Easting <sup>[1]</sup>	Elevation On Top Of PVC (feet NAVD88)	Elevation Ground Surface (feet NAVD88)	Ground Surface Elevation at Concrete Pad (feet NAVD88) <sup>[2]</sup>	Total Depth (feet bgs)	Depth to Bedrock (feet bgs)	Screened Interval (feet bgs)	Screened Interval (feet NAVD88)	Core Available	Water Level (feet bTOC)	Date Installed
B-125D	N33.832109	W84.476228	1394111.6	2202580.7	821.70	819.15	819.1	145.4	25.0	135.1-145.1	684.1-674.1	Sonic Core	15.70	3/31/2023

**Notes:**

[1] Coordinates of top of PVC well casing.

[2] Ground surface measured at the mag nail in the concrete pad.

NAD 83 - North American Datum of 1983 (2011), Georgia State Plane, West Zone

NAVD88 - North American Vertical Datum 1988

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 MONITORING WELL DEVELOPMENT**  
 Georgia Power Company - Plant McDonough

Well 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)
B-125D	4/3/2023	11:50	Reclaimer Pump	148.10	18.49	Dry	21.1	90	7.65	0.386	16.20	1000.00	-22.0	8.40
B-125D	4/4/2023	10:43	Reclaimer Pump	148.10	87.49	Dry	9.88	18	6.25	1.094	18.52	417.00	16.3	5.66
B-125D	4/5/2023	12:39	Reclaimer Pump	148.10	74.15	Dry	12.05	47	6.57	1.019	22.42	85.30	15.2	7.78

**Notes:**  
 hr:min - hours:minutes  
 bTOC - feet below Top of Casing  
 gal - gallons  
 SU - Standard Units  
 mS/cm - millisiemens per centimeter  
 oC - degrees Celsius  
 NTU - nephelometric turbidity units  
 mV - millivolts  
 mg/L - milligrams per liter  
 ORP - oxygen reduction potential  
 DO - dissolved oxygen  
 ID - Identification  
 PVC - Polyvinyl chloride  
 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.

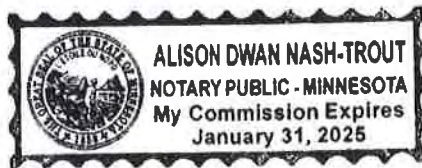
IN WITNESS WHEREOF, ATLANTIC SPECIALTY INSURANCE COMPANY has caused these presents to be signed by an Authorized Officer and the seal of the Company to be affixed this twenty-seventh day of April, 2020.



By *Paul J. Brehm*  
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.



*Alison Nash-Trout*  
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*  
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)

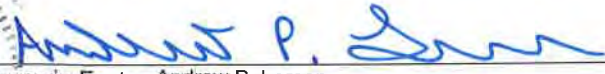
Amount of bond Thirty Thousand and 00/100 Dollars (\$30,000.00)

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   
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



**APPENDIX B**

**Boring Logs/Construction  
Diagrams, Development Forms and  
Calibration Logs**

# RECORD OF BOREHOLE B-125D

SHEET 1 of 5

PROJECT: SCS Plant McDonough  
 PROJECT NUMBER: GL166849622  
 DRILLED DEPTH: 220.00 ft  
 LOCATION: Smyrna, GA

DRILL RIG: Track Rig PS150  
 DATE STARTED: 3/14/23  
 DATE COMPLETED: 3/31/23

NORTHING: 1,394,111.60  
 EASTING: 2,202,580.70  
 GS ELEVATION: 819.15 ft  
 TOC ELEVATION: 821.70 ft

DEPTH W.L.: 15.7 ft  
 ELEVATION W.L.:  
 DATE W.L.: 3/31/23  
 TIME W.L.:

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, SC, CLAYEY SAND, some silt, red, trace mica, highly weathered, NC, moist, trending drier downhole, loose to compact; air knifed for utility clearance	SC		809.15 10.00	1		4.00 10.00	Aquaguard Grout	<p><b>WELL CASING</b> Interval: 0'-135.1' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded</p> <p><b>WELL SCREEN</b> Interval: 135.1'-145.1' Material: 0.010" Slotted Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p><b>FILTER PACK</b> Interval: 132.6'-146.5' Type: No. 2 Filter Sand Quantity: 4x15-cu ft bag</p> <p><b>FILTER PACK SEAL</b> Interval: 128'-132.6' Type: Pel Plug Bentonite Pellets 3/8" Quantity: 1 x 5 gal bucket</p> <p><b>ANNULUS SEAL</b> Interval: 0'-128' Type: Aquaguard bentonite grout Quantity: 8 bags</p> <p><b>WELL COMPLETION</b> Pad: 4'x4' Protective Casing: Aluminum</p> <p><b>DRILLING METHODS</b> Soil Drill: Sonic Rock Drill: Sonic Sample Type: Sonic</p>
815										
5										
810										
10		10.00 - 20.00 RESIDUUM, SP, fine SAND with trace clay, tan, trace mica, moderately weathered, NC, moist, loose	SP		799.15 20.00	2		4.00 10.00		
805										
15										
800										
20		20.00 - 22.50 SW, fine to coarse SAND with gravels of schist, saprolitic schist structure observed, tan, highly weathered, NC, dry, very loose	SW		796.65 22.50	3		9.50 10.00		
795		22.50 - 25.00 TWR, GP, angular GRAVEL with fine to coarse sand; schistic gravels, highly weathered, NC, dry, very loose	GP		794.15 25.00					
25		25.00 - 30.00 BEDROCK, highly weathered GNEISS, very rough surface, multiple fractures			789.15 30.00					
790										
30		30.00 - 34.00 No Recovery			785.15 34.00	4		6.00 10.00		
785										
35		34.00 - 68.00 moderately weathered GNEISS, very rough surface, multiple fractures				5		9.50 10.00		
780										
40										
775										
45										
770										
50		Log continued on next page								

BOREHOLE RECORD PLANT MCDONOUGH\_B-125D.GPJ PIEDMONT.GDT 5/24/23

LOG SCALE: 1 in = 6.5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Brendan Griffin

GA INSPECTOR: Chris Tidwell  
 CHECKED BY: Rhonda Quinn  
 DATE: 5/11/2023



# RECORD OF BOREHOLE B-125D

SHEET 2 of 5

PROJECT: SCS Plant McDonough  
 PROJECT NUMBER: GL166849622  
 DRILLED DEPTH: 220.00 ft  
 LOCATION: Smyrna, GA

DRILL RIG: Track Rig PS150  
 DATE STARTED: 3/14/23  
 DATE COMPLETED: 3/31/23

NORTHING: 1,394,111.60  
 EASTING: 2,202,580.70  
 GS ELEVATION: 819.15 ft  
 TOC ELEVATION: 821.70 ft

DEPTH W.L.: 15.7 ft  
 ELEVATION W.L.:  
 DATE W.L.: 3/31/23  
 TIME W.L.:

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		34.00 - 68.00 moderately weathered GNEISS, very rough surface, multiple fractures (Continued)								<b>WELL CASING</b> Interval: 0'-135.1' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded  <b>WELL SCREEN</b> Interval: 135.1'-145.1' Material: 0.010" Slotted Diameter: 2" Slot Size: 0.010" End Cap: 3"  <b>FILTER PACK</b> Interval: 132.6'-146.5' Type: No. 2 Filter Sand Quantity: 4x15-cu ft bag  <b>FILTER PACK SEAL</b> Interval: 128'-132.6' Type: Pel Plug Bentonite Pellets 3/8" Quantity: 1 x 5 gal bucket  <b>ANNULUS SEAL</b> Interval: 0'-128' Type: Aquaguard bentonite grout Quantity: 8 bags  <b>WELL COMPLETION</b> Pad: 4'x4' Protective Casing: Aluminum  <b>DRILLING METHODS</b> Soil Drill: Sonic Rock Drill: Sonic Sample Type: Sonic
765						6		8.00 10.00		
55										
760										
60										
755										
65										
750		68.00 - 70.00 highly weathered GNEISS, very rough surface, multiple fractures, iron staining			7	6.00 10.00				
70		70.00 - 150.00 moderately to slightly weathered GNEISS; rough irregular surface, multiple fractures, intermittent quartz lenses, iron staining at 77.5', 130'-140'								
745										
75										
740										
80										
735										
85										
730										
90										
725										
95										
720										
100										

Log continued on next page

BOREHOLE RECORD PLANT MCDONOUGH\_B-125D.GPJ PIEDMONT.GDT 5/24/23

LOG SCALE: 1 in = 6.5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Brendan Griffin

GA INSPECTOR: Chris Tidwell  
 CHECKED BY: Rhonda Quinn  
 DATE: 5/11/2023









# RECORD OF BOREHOLE B-125D

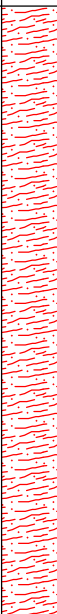

SHEET 5 of 5

PROJECT: SCS Plant McDonough  
 PROJECT NUMBER: GL166849622  
 DRILLED DEPTH: 220.00 ft  
 LOCATION: Smyrna, GA

DRILL RIG: Track Rig PS150  
 DATE STARTED: 3/14/23  
 DATE COMPLETED: 3/31/23

NORTHING: 1,394,111.60  
 EASTING: 2,202,580.70  
 GS ELEVATION: 819.15 ft  
 TOC ELEVATION: 821.70 ft

DEPTH W.L.: 15.7 ft  
 ELEVATION W.L.:  
 DATE W.L.: 3/31/23  
 TIME W.L.:

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
200		150.00 - 220.00 moderately to highly weathered GNEISS; rough irregular surface, multiple fractures, quartz and biotite mica, iron staining at 157'-160' (Continued)							<b>WELL CASING</b> Interval: 0'-135.1' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded  <b>WELL SCREEN</b> Interval: 135.1'-145.1' Material: 0.010" Slotted Diameter: 2" Slot Size: 0.010" End Cap: 3"  <b>FILTER PACK</b> Interval: 132.6'-146.5' Type: No. 2 Filter Sand Quantity: 4x15-cu ft bag  <b>FILTER PACK SEAL</b> Interval: 128'-132.6' Type: Pel Plug Bentonite Pellets 3/8" Quantity: 1 x 5 gal bucket  <b>ANNULUS SEAL</b> Interval: 0'-128' Type: Aquaguard bentonite grout Quantity: 8 bags  <b>WELL COMPLETION</b> Pad: 4'x4' Protective Casing: Aluminum  <b>DRILLING METHODS</b> Soil Drill: Sonic Rock Drill: Sonic Sample Type: Sonic	
615					21	10.00 10.00				
205					22	7.00 10.00				
610					599.15					
210		Boring completed at 220.00 ft								
605										
215										
600										
220										
595										
225										
590										
230										
585										
235										
580										
240										
575										
245										
570										
250										

BOREHOLE RECORD PLANT MCDONOUGH\_B-125D.GPJ PIEDMONT.GDT 5/24/23

LOG SCALE: 1 in = 6.5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Brendan Griffin

GA INSPECTOR: Chris Tidwell  
 CHECKED BY: Rhonda Quinn  
 DATE: 5/11/2023



# Low-Flow Test Report:

Test Date / Time: 4/3/2023 11:50:45 AM

Project: McDonough Delineation Drilling Well Development 2023

Operator Name: M. Mann

<b>Location Name: B-125D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 m</b> <b>Top of Screen: 135 ft</b> <b>Total Depth: 145 ft</b> <b>Initial Depth to Water: 18.49 ft</b>	<b>Pump Type: Reclaimer</b> <b>Tubing Type: LDPE</b> <b>Pump Intake From TOC: 143 ft</b> <b>Estimated Total Volume Pumped: 340560 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 3785.41 ml/min</b> <b>Final Draw Down: 123 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 966105</b>
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## Test Notes:

## Weather Conditions:

Rainy

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 0.3	
4/3/2023 11:50 AM	00:00	6.47 pH	16.61 °C	601.19 µS/cm	8.38 mg/L	126.00 NTU	-76.4 mV	18.49 ft	3,785.4 ml/min
4/3/2023 11:51 AM	00:42	6.48 pH	16.88 °C	612.49 µS/cm	7.87 mg/L	126.00 NTU	-98.9 mV	18.49 ft	3,785.4 ml/min
4/3/2023 12:01 PM	10:42	6.56 pH	17.35 °C	554.43 µS/cm	2.45 mg/L	328.00 NTU	-84.8 mV	86.03 ft	3,785.4 ml/min
4/3/2023 12:11 PM	20:42	6.69 pH	17.23 °C	441.82 µS/cm	3.30 mg/L	185.00 NTU	-51.6 mV	95.90 ft	3,785.4 ml/min
4/3/2023 12:21 PM	30:42	6.76 pH	17.08 °C	367.22 µS/cm	4.15 mg/L	474.00 NTU	-34.3 mV	108.50 ft	3,785.4 ml/min
4/3/2023 12:31 PM	40:42	6.81 pH	16.84 °C	339.67 µS/cm	4.51 mg/L	313.00 NTU	-29.2 mV	115.44 ft	3,785.4 ml/min
4/3/2023 12:41 PM	50:42	6.85 pH	16.60 °C	319.10 µS/cm	4.82 mg/L	242.00 NTU	-24.1 mV	122.95 ft	3,785.4 ml/min
4/3/2023 12:51 PM	01:00:42	6.84 pH	16.65 °C	309.92 µS/cm	4.89 mg/L		-21.1 mV	127.30 ft	3,785.4 ml/min
4/3/2023 1:01 PM	01:10:42	6.83 pH	16.65 °C	298.50 µS/cm	5.01 mg/L	169.00 NTU	-17.7 mV	138.20 ft	3,785.4 ml/min
4/3/2023 1:11 PM	01:20:42	6.82 pH	16.60 °C	292.85 µS/cm	5.36 mg/L	125.00 NTU	-14.3 mV	143.02 ft	3,785.4 ml/min
4/3/2023 1:21 PM	01:30:42	6.79 pH	16.57 °C	292.35 µS/cm	5.43 mg/L		-11.5 mV	143.02 ft	3,785.4 ml/min
4/3/2023 1:31 PM	01:40:42	6.77 pH	16.56 °C	291.68 µS/cm	5.35 mg/L	157.00 NTU	-9.4 mV	141.49 ft	3,785.4 ml/min
4/3/2023 1:41 PM	01:50:42	6.79 pH	16.50 °C	327.58 µS/cm	5.35 mg/L		-14.1 mV	141.49 ft	3,785.4 ml/min

4/3/2023 1:51 PM	02:00:42	6.79 pH	16.20 °C	328.38 µS/cm	5.40 mg/L	1,000.00 NTU	-12.2 mV	143.81 ft	3,785.4 ml/min
4/3/2023 2:01 PM	02:10:42	6.93 pH	16.35 °C	339.42 µS/cm	5.89 mg/L		-24.2 mV	143.81 ft	3,785.4 ml/min
4/3/2023 2:11 PM	02:20:42	7.02 pH	16.24 °C	347.45 µS/cm	6.26 mg/L	1,000.00 NTU	-18.4 mV	144.10 ft	3,785.4 ml/min
4/3/2023 2:21 PM	02:30:42	7.37 pH	16.33 °C	376.57 µS/cm	7.95 mg/L		-31.2 mV	144.10 ft	3,785.4 ml/min
4/3/2023 2:31 PM	02:40:42	7.65 pH	16.20 °C	385.66 µS/cm	8.40 mg/L	1,000.00 NTU	-22.0 mV	145.17 ft	3,785.4 ml/min
4/3/2023 2:41 PM	02:50:47	7.71 pH	16.29 °C	391.17 µS/cm	8.25 mg/L		-6.7 mV	145.17 ft	3,785.4 ml/min

## Samples

<b>Sample ID:</b>	<b>Description:</b>
-------------------	---------------------

# Low-Flow Test Report:

**Test Date / Time:** 4/4/2023 10:43:17 AM

**Project:** McDonough Delineation Drilling Well Development 2023

**Operator Name:** M. Mann

<b>Location Name: B-125D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 135 ft</b> <b>Total Depth: 145 ft</b> <b>Initial Depth to Water: 87.49 ft</b>	<b>Pump Type: Reclaimer</b> <b>Tubing Type: LDPE</b> <b>Pump Intake From TOC: 143 ft</b> <b>Estimated Total Volume Pumped: 70000 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 700 ml/min</b> <b>Final Draw Down: 57.01 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 966105</b>
---	--	--

## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 0.3	
4/4/2023 10:43 AM	00:00	8.06 pH	17.31 °C	668.57 µS/cm	8.96 mg/L	1,000.00 NTU	112.2 mV	87.49 ft	700.00 ml/min
4/4/2023 10:53 AM	10:00	6.36 pH	17.84 °C	988.05 µS/cm	4.35 mg/L	802.00 NTU	3.5 mV	97.23 ft	700.00 ml/min
4/4/2023 11:03 AM	20:00	6.00 pH	17.99 °C	1,136.8 µS/cm	5.34 mg/L	118.00 NTU	-10.0 mV	108.55 ft	700.00 ml/min
4/4/2023 11:13 AM	30:00	6.02 pH	18.19 °C	1,124.0 µS/cm	3.48 mg/L	330.00 NTU	-7.0 mV	113.58 ft	700.00 ml/min
4/4/2023 11:23 AM	40:00	6.21 pH	18.16 °C	1,023.7 µS/cm	4.63 mg/L	190.00 NTU	-1.6 mV	116.88 ft	700.00 ml/min
4/4/2023 11:33 AM	50:00	6.18 pH	18.07 °C	1,036.9 µS/cm	4.07 mg/L	155.00 NTU	-2.7 mV	124.46 ft	700.00 ml/min
4/4/2023 11:43 AM	01:00:00	6.12 pH	18.12 °C	1,062.3 µS/cm	3.93 mg/L	107.00 NTU	1.1 mV	138.32 ft	700.00 ml/min
4/4/2023 11:53 AM	01:10:00	6.11 pH	18.24 °C	1,078.8 µS/cm	4.08 mg/L	85.60 NTU	2.4 mV	141.45 ft	700.00 ml/min
4/4/2023 12:03 PM	01:20:00	6.18 pH	18.33 °C	1,086.4 µS/cm	4.95 mg/L	235.00 NTU	11.2 mV	144.50 ft	700.00 ml/min
4/4/2023 12:13 PM	01:30:00	6.25 pH	18.52 °C	1,093.8 µS/cm	5.66 mg/L	417.00 NTU	16.3 mV	146.78 ft	700.00 ml/min
4/4/2023 12:23 PM	01:40:00	6.35 pH	18.72 °C	1,093.6 µS/cm	6.33 mg/L		17.1 mV	144.50 ft	700.00 ml/min

## Samples

Sample ID:	Description:
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# Low-Flow Test Report:

**Test Date / Time:** 4/5/2023 12:39:46 PM

**Project:** McDonough Delineation Drilling Well Development 2023

**Operator Name:** M. Mann

<b>Location Name: B-125D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 135 ft</b> <b>Total Depth: 145 ft</b> <b>Initial Depth to Water: 74.15 ft</b>	<b>Pump Type: Reclaimer</b> <b>Tubing Type: LDPE</b> <b>Pump Intake From TOC: 144 ft</b> <b>Estimated Total Volume Pumped: 178341.531 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 2000 ml/min</b> <b>Final Draw Down: 69.85 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 966105</b>
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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	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 0.3	
4/5/2023 12:39 PM	00:00	6.91 pH	30.24 °C	974.96 µS/cm	11.66 mg/L	100.00 NTU	-45.4 mV	71.49 ft	3,785.4 ml/min
4/5/2023 12:49 PM	10:00	6.58 pH	19.99 °C	1,057.7 µS/cm	8.28 mg/L	245.00 NTU	1.1 mV	125.98 ft	3,785.4 ml/min
4/5/2023 12:59 PM	20:00	6.67 pH	19.89 °C	1,073.9 µS/cm	8.43 mg/L	396.00 NTU	-0.4 mV	133.87 ft	2000.00 ml/min
4/5/2023 1:09 PM	30:00	6.66 pH	20.96 °C	1,061.7 µS/cm	8.20 mg/L	606.00 NTU	3.3 mV	139.94 ft	2,000.0 ml/min
4/5/2023 1:19 PM	40:00	6.52 pH	21.24 °C	1,057.1 µS/cm	8.19 mg/L	250.00 NTU	17.4 mV	141.87 ft	2,000.0 ml/min
4/5/2023 1:29 PM	50:00	6.47 pH	22.13 °C	1,056.5 µS/cm	8.07 mg/L	189.00 NTU	21.4 mV	143.65 ft	2,000.0 ml/min
4/5/2023 1:30 PM	50:58	6.47 pH	22.21 °C	1,059.8 µS/cm	8.11 mg/L	132.00 NTU	21.3 mV	144.00 ft	2,000.0 ml/min
4/5/2023 1:40 PM	01:00:58	6.53 pH	21.84 °C	1,035.1 µS/cm	7.92 mg/L	112.00 NTU	18.7 mV	144.00 ft	2,000.0 ml/min
4/5/2023 1:50 PM	01:10:19	6.57 pH	22.42 °C	1,018.6 µS/cm	7.78 mg/L	85.30 NTU	15.2 mV	144.00 ft	2,000.0 ml/min
4/5/2023 2:00 PM	01:20:19	6.61 pH	22.95 °C	993.76 µS/cm	7.66 mg/L		12.5 mV	144.00 ft	2,000.0 ml/min

## Samples

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

Project Plant McDonough  
Field Staff M. Mann

## Instrument Calibration

		Date:	04/03/2023	04/04/2023
		Time:	1115	045
Parameter	Units	Standard	AquaTROLL SN 966105 iPad # 79	AquaTROLL SN 966105 iPad # 79
DO	% saturation	100	111.01	101.85
Conductivity	us/cm	4490	4659.0	4266.1
pH	S.U.	4.00	4.10	4.01
pH	S.U.	7.00	7.05	7.03
pH	S.U.	10.00	10.08	10.07
ORP	mV	228.00	231	223.5

Turbidity	Units	Standard	Hach SN 21010D000165	Hach SN 21010D000165
	NTU	20	20.4	19.5
	NTU	100	101	97.7
	NTU	800	803	803
	NTU	10.0	10.8	11.4

		Date:	04/05/2023	
		Time:	1045	
Parameter	Units	Standard	AquaTROLL SN 966105 iPad # 79	AquaTROLL SN _____ iPad # _____
DO	% saturation	100	107.19	
Conductivity	us/cm	4490	4491.7	
pH	S.U.	4.00	4.02	
pH	S.U.	7.00	6.99	
pH	S.U.	10.00	10.01	
ORP	mV	228.00	220.8	

Turbidity	Units	Standard	Hach SN 21010D000165	Hach SN _____
	NTU	20	18.2	
	NTU	100	94.1	
	NTU	800	788	
	NTU	10.0	10.7	

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



**APPENDIX C**

**Geophysical Record of Borehole  
B-125D**



## Memo

**SUBJECT**

Geophysical Borehole Logging  
Georgia Power Plant McDonough-Atkinson  
B-125D Vertical Delineation Area

**TO**

File

**DATE**

April 26, 2023

**PROJECT NUMBER**

30175278.00001

**DEPARTMENT**

Environment

**NAME**

Gabriel Hebert, MSc  
317.694.3727

[gabriel.hebert@arcadis.com](mailto:gabriel.hebert@arcadis.com)

**COPIES TO**

Warren Johnson  
Lauren Hartley

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Arcadis has prepared this technical memo to document the geophysical borehole investigation performed to provide additional characterization of potential fracture zones present within the borehole B-125D Vertical Delineation Area, located at the Georgia Power Plant McDonough-Atkinson in Smyrna, Georgia (Site). The objective of this borehole investigation was to improve understanding of the presence and characteristics of any fractures that may be present within the B-125D borehole. The borehole geophysical field activities were conducted across two separate mobilizations, on March 17 and 28, 2023.

## Geophysical Logging Equipment

Arcadis collected borehole geophysical logs using a portable Matrix system manufactured by the Mount Sopris Instrument Company in Golden, Colorado. This system is a digital, multi-channel system designed primarily for shallow environmental and engineering studies. The logging system consists of two primary components. The first is the integrated logging control unit, which remains at the surface with the equipment operator, and the second component is the downhole-logging probe. The control unit is joined physically and electronically to the chosen downhole probe with a steel cable, approximately 600 feet in length, containing a single insulated wire. The steel cable is spooled on an integrated electric winch mechanism. The downhole position of the probe is measured to a precision of 0.01 feet with a digital odometer. The electrical signals transmitted by the downhole probe are passed from the winch to a signal processor within the logging unit. The processed digital data collected include the probe depth, speed, and the probe-specific measurements of the borehole. The data are recorded in a portable computer for real-time viewing, and storage for later analysis.

The geophysical probes utilized on this project include:

1. Fluid Temperature/Resistivity probe;
2. Three-Arm Caliper probe;
3. Acoustic Televiwer probe;
4. Optical Televiwer probe;

5. Vertical Flow/Heat Pulse Flow probe;

Data from these probes were collected in a near-continuous manner in the borehole from the ground surface to final depth (after the second mobilization) of approximately 219 feet below ground surface (BGS) at a near-constant speed ranging from 5 to 15 feet per minute, depending on the probe. The individual probes are discussed in the subsections below.

### **Fluid Temperature/Resistivity Probe**

A Mount Sopris 2WQA-1000 fluid temperature/resistivity probe was used to provide borehole fluid temperature and fluid resistivity measurements. The standard temperature log, based on a thermister, is designed to provide a measure of the ambient geothermal gradient, but is also helpful in detecting anomalies caused by events such as fluid flow into the borehole. The borehole fluid resistivity is directly proportional to the concentration of dissolved minerals. It is generally used in hydrogeology to determine the concentration of dissolved ions in the aquifers and to locate the fluid flows occurring in the borehole, especially if some time has passed and the temperature features have dissipated.

### **Three-arm Caliper Probe**

A Mount Sopris 2PCA-1000 three-arm caliper probe was used to provide detailed information on the nominal diameter of the borehole. Once the probe has been lowered to the bottom of the boring, three spring arms expand into the open boring and provide a measure of the effective diameter of the boring. Several, valuable pieces of information can be derived from the three-arm caliper log. In the open bedrock portions of the boring, the locations of potential changes in rock type and the locations of fracture zones can be interpreted. Generally, fractured rock is less resistant to mechanical forces with the result that borehole diameter will be enlarged by the drilling/coring process in fracture zones. A larger, more irregular boring diameter will be indicated on the logs in fracture zones. In contrast, more competent rock will tend to have a much smoother appearance near the drilled borehole diameter.

### **Acoustic Televiewer Probe**

An ABI40 AcousticTeleviewer (MK2) manufactured by Advanced Logic Technology (ALT) was used to image the bedrock fractures within the borehole. An acoustic televiewer probe works by emitting ultrasonic energy pulses at a frequency of approximately 1.2MHz. These ultrasonic pulses travels outward from the probe, through the borehole fluid, to the borehole wall, where a part of the pulse gets reflected back towards the probe, and the rest of it continues through the bedrock with a different velocity. The travel time and the amplitude of reflected energy are utilized to image the borehole wall and may also provide some information about the orientation of the fracture zones within the borehole. Generally, hard, competent rock reflects much more of the acoustic energy back (higher reflection amplitude = light gray in color) to the probe than softer, weathered/fractured rock, which tends absorb, transmit, or scatter most of the energy (lower reflection amplitude = black in color).

### **Vertical Flow/Heat Pulse Flow Probe**

While the other probes were used to characterize the vertical extent and delineate the various fracture zones present within the borehole, the Mount Sopris HFP-2293 heat pulse flow meter (HPFM) was used to determine the approximate rate of vertical fluid flow emanating from the fracture zones. Vertical fluid flow within a borehole is typically caused by the difference in hydraulic head between a fracture with high head to

a fracture with low head, although temperature/density variations within the fluid emanating from a given fracture can also contribute to vertical flow. The heat pulse flow probe consists of a central conductor, which triggers the heat pulse, and two sensors at both the upper and lower end of the probe. The central conductor generates a heat pulse, which heats a volume of fluid (water in this case) next to the conductor in borehole, and depending upon the vertical flow of water (or lack thereof) in the borehole, the volume of warm water is detected at either the upper (upward flow = positive values) or lower sensors (downward flow = negative values). The peak temperature difference and time taken by the volume of water to travel from the center to one of the sensors is recorded in a computer at the surface, which is then used to determine the flow rate within a given depth interval of the borehole. For this project, heat pulse flow data was collected both under ambient, as well as pumping conditions.

## Results and Interpretations

After data collection, the borehole geophysical logs were downloaded to a PC, converted from the binary format to a usable Microsoft Excel format, then filtered and statistically correlated using Grapher (ver.11) by Golden Software. The filtered logs were then imported into WellCad (ver.5.1) for final processing and plotting.

The final borehole logs are included on the compiled geophysical log of B-125D, which is presented in **Attachment A**. In general, the borehole datasets correlate well with rock cuttings observed during drilling, and with each other: the small number of fracture zones detected on the caliper logs correspond with zones of decreased reflection amplitude in the acoustic televiewer. Fluid temperature and resistivity remained relatively consistent throughout the borehole, though a notable decrease in the fluid resistivity was observed from approximately 122.5 feet BGS to the bottom of the borehole. The HPFM data indicated that groundwater flow from the detected fracture zones was mostly negligible, although two zones indicated minor upward flow, ranging from 0.02 up to 0.05 gallons per minute (gpm) under ambient conditions. No flow was observed under pumping conditions.

## Conclusions

Arcadis performed a limited borehole geophysical investigation of the B-125D Vertical Delineation Area, located within Georgia Power Plant McDonough-Atkinson for the purpose of obtaining additional characterization of potential fracture zones located beneath the Site. In summary, minimal fracturing were observed within the borehole. Groundwater flow from these few fractures was observed to be negligible, though what little was observed was upward, ranging from 0.02 up to 0.05 gpm under ambient conditions. No flow was observed under pumping conditions.

Despite the lack of flow observed within the bedrock, these borehole datasets were successful in providing additional lines of evidence to further refine the understanding of bedrock structure beneath the site. This memo includes a limited set of data within the project site. The conclusions drawn from this investigation are considered reliable; however, there may exist localized variations in the subsurface conditions that have not been completely defined at this time.

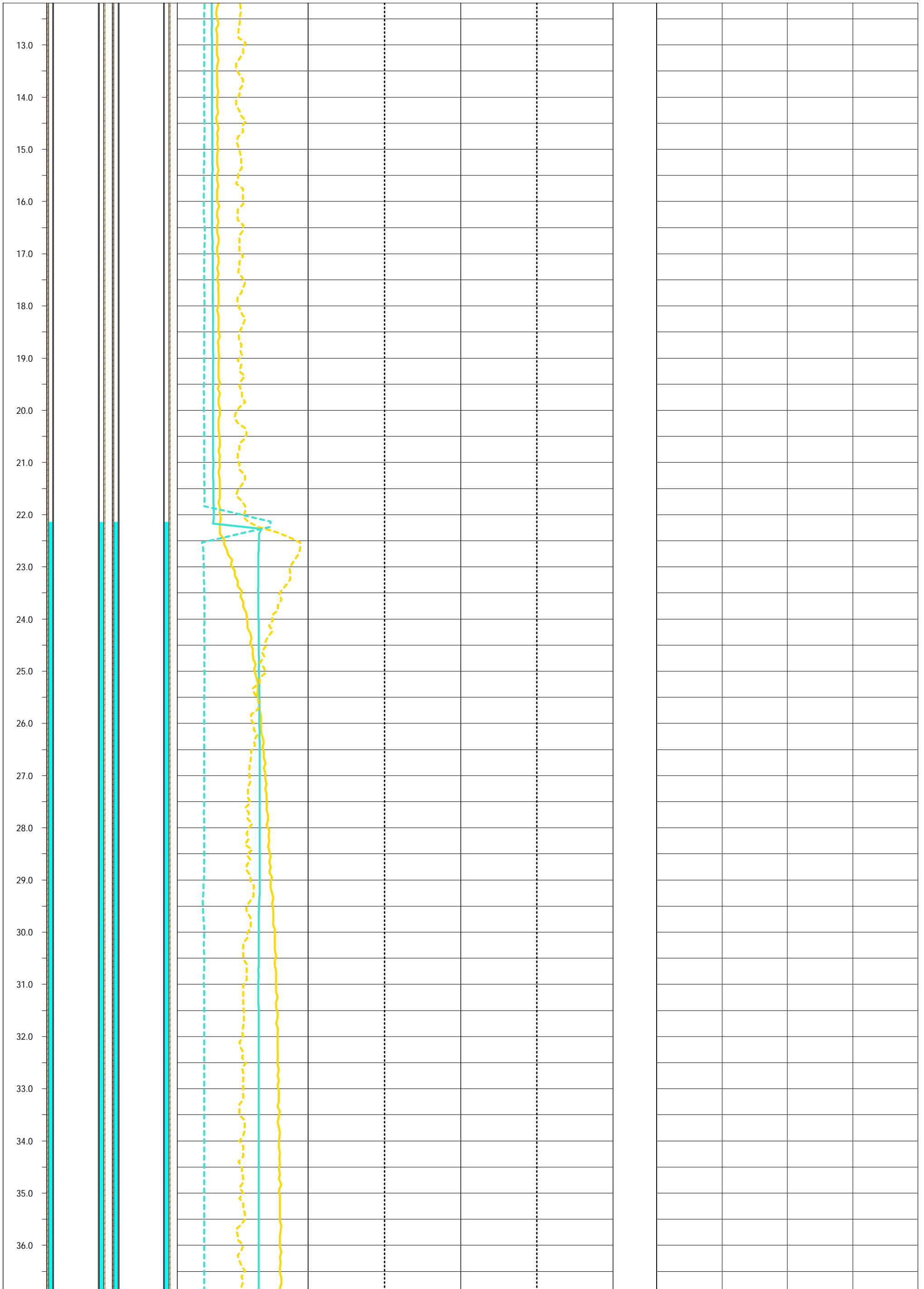
### Attachment A

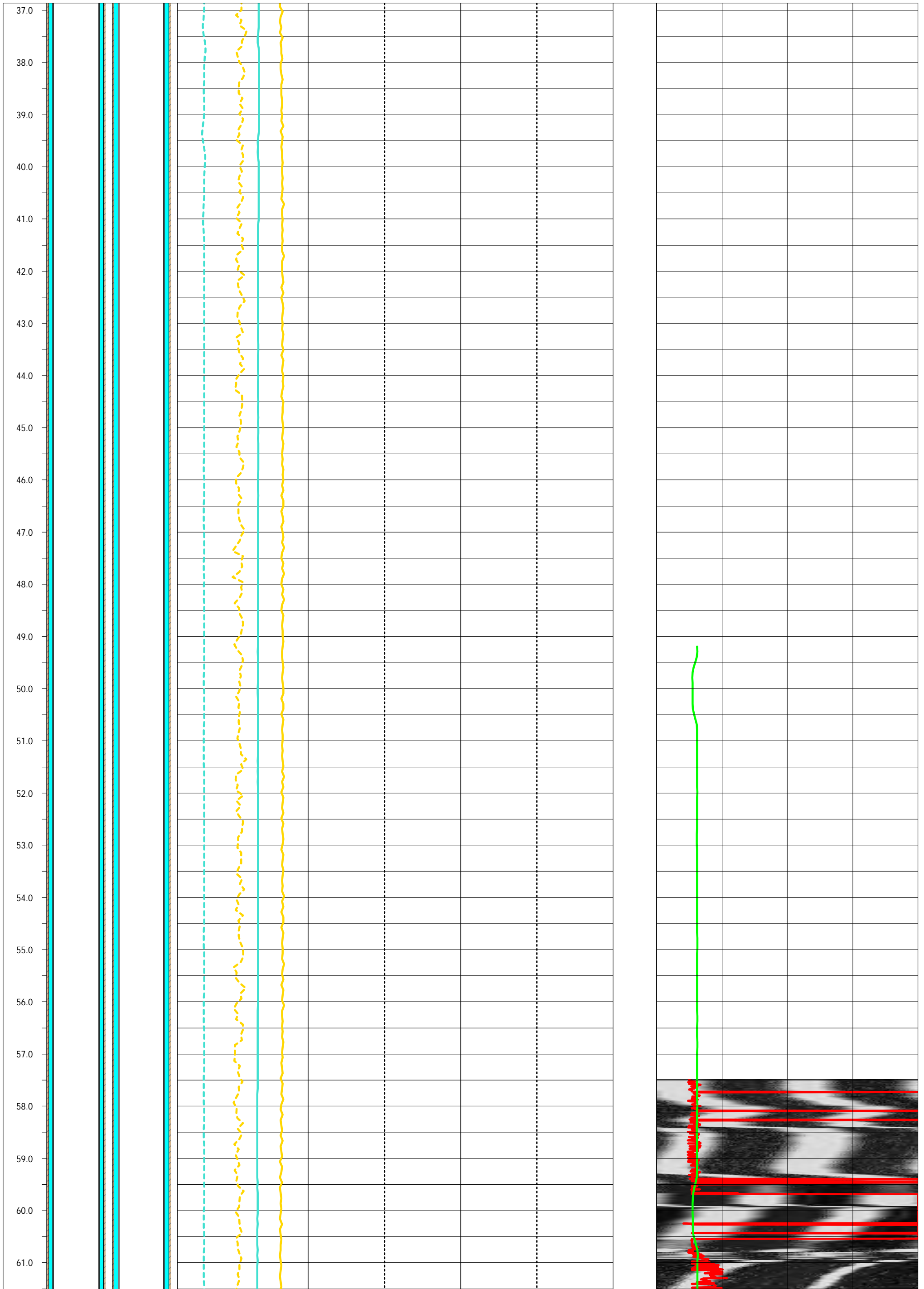
- 1: B-125D Borehole Log

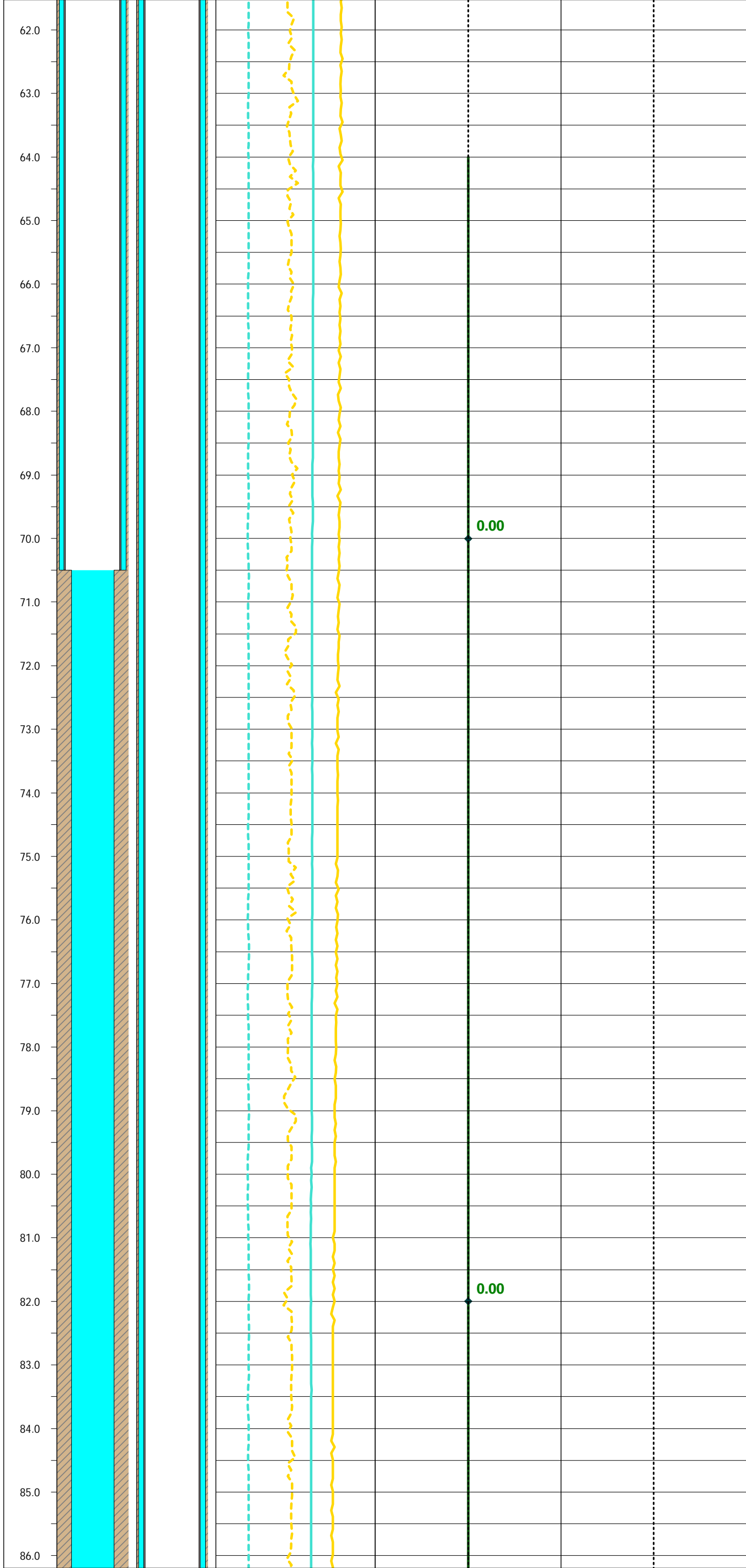
# **Attachment A**

**B-125D Borehole Log**



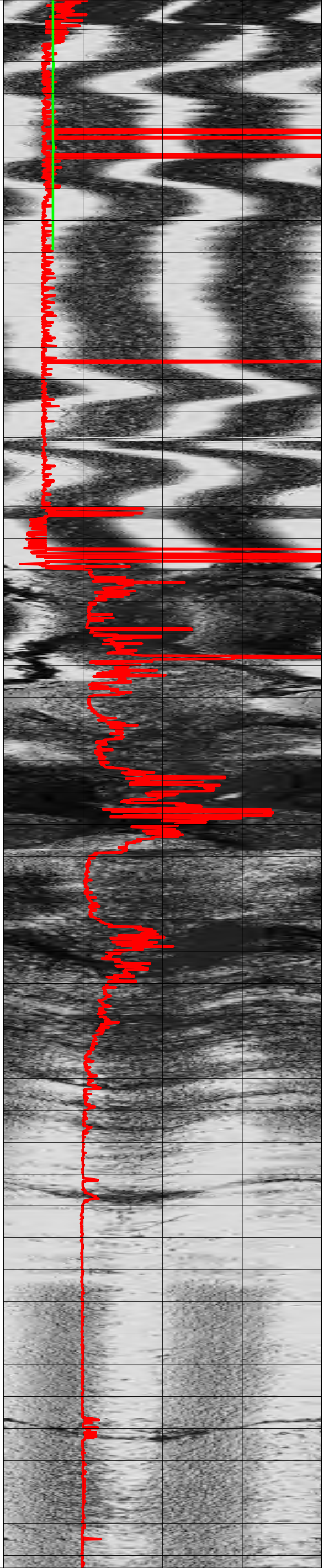




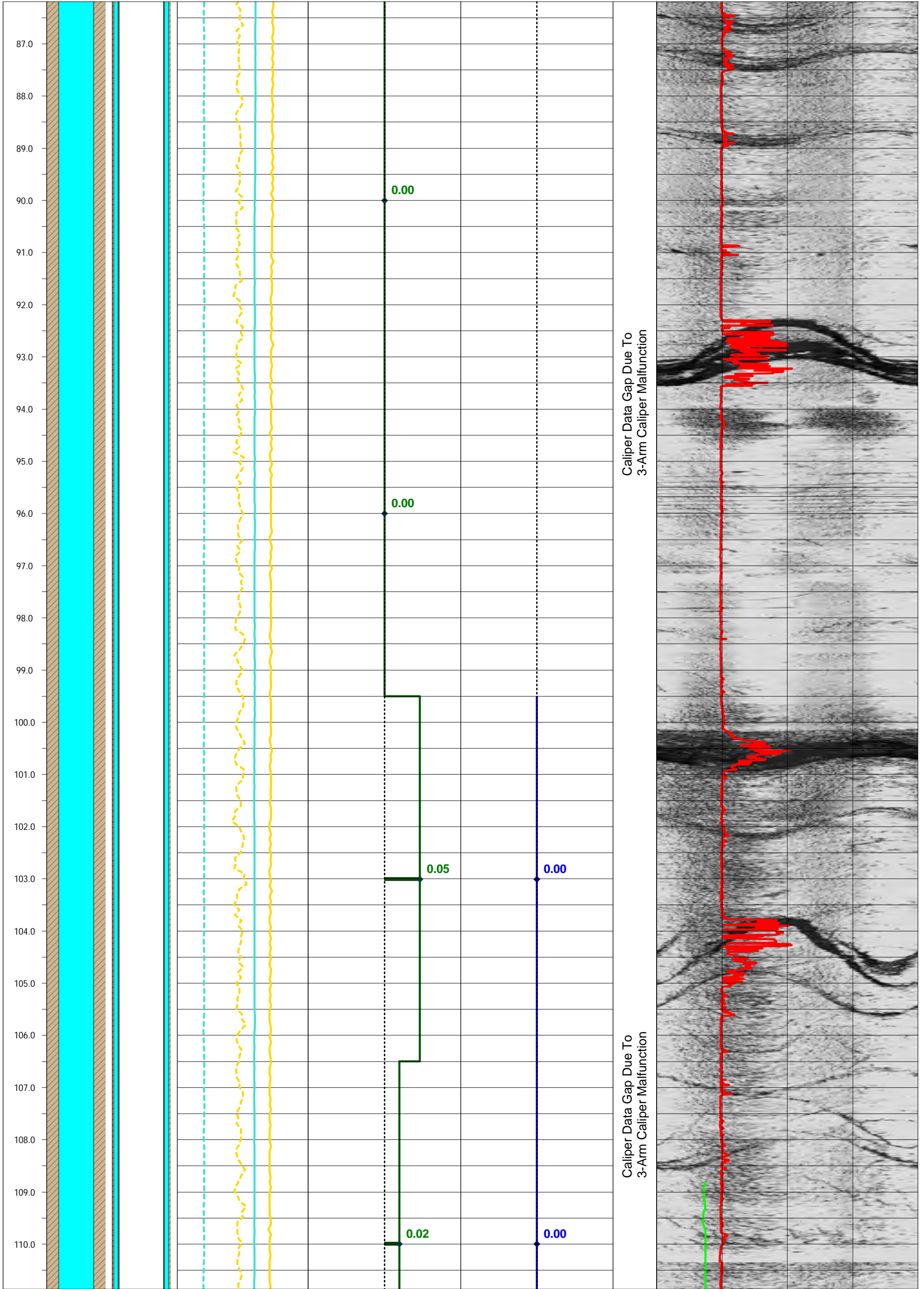


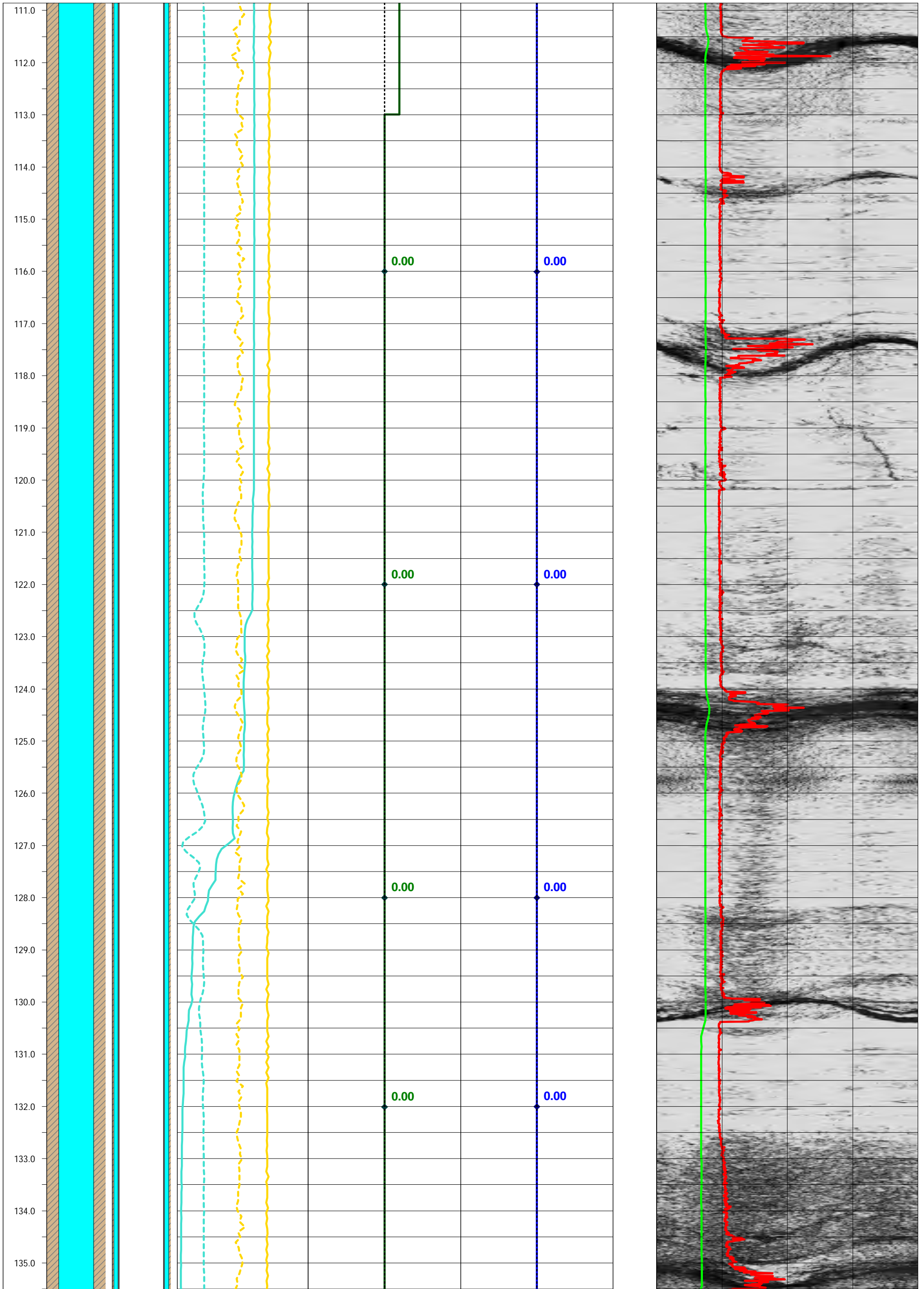
Caliper Data Gap Due To  
3-Arm Caliper Malfunction

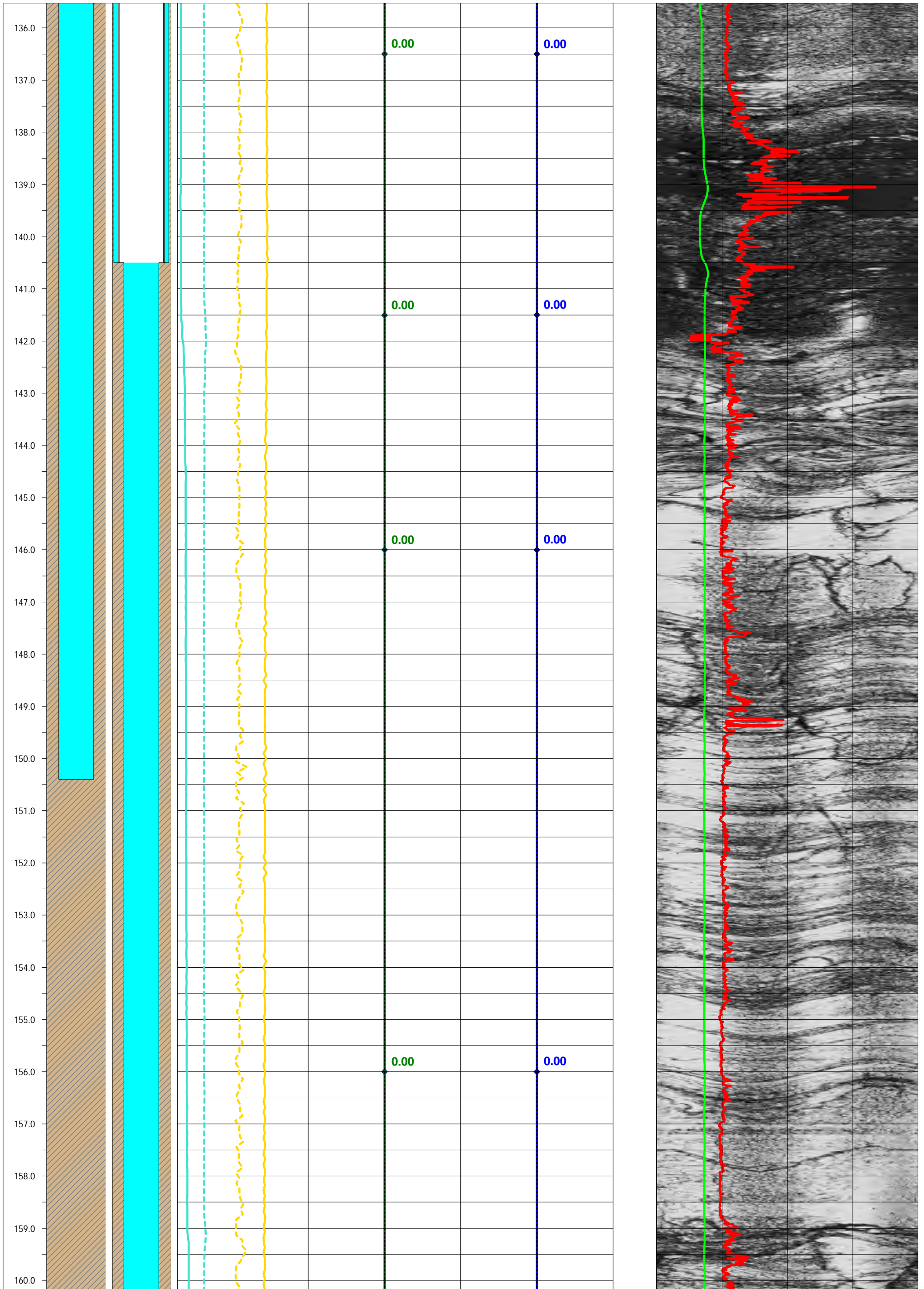
Caliper Data Gap Due To  
3-Arm Caliper Malfunction

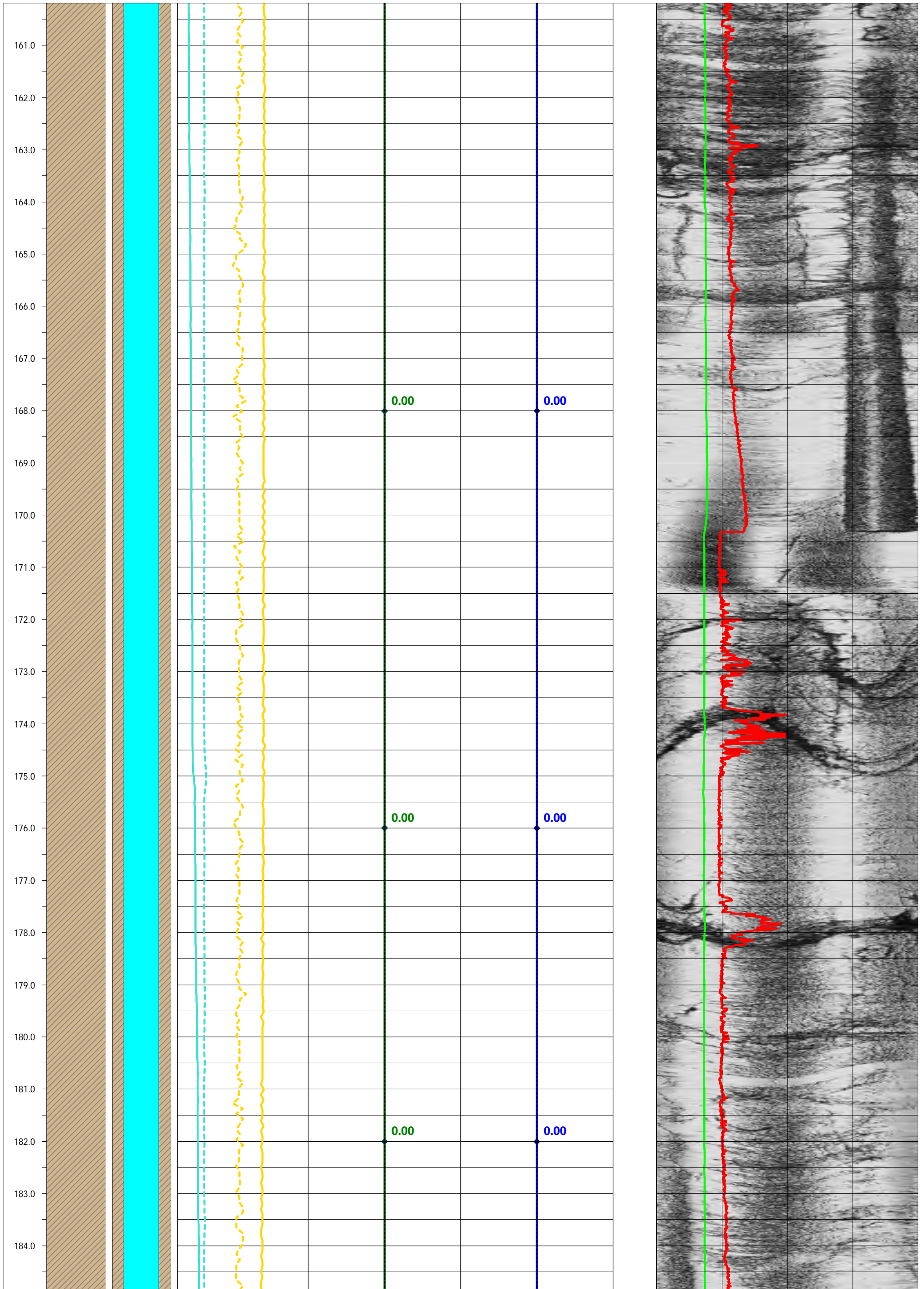


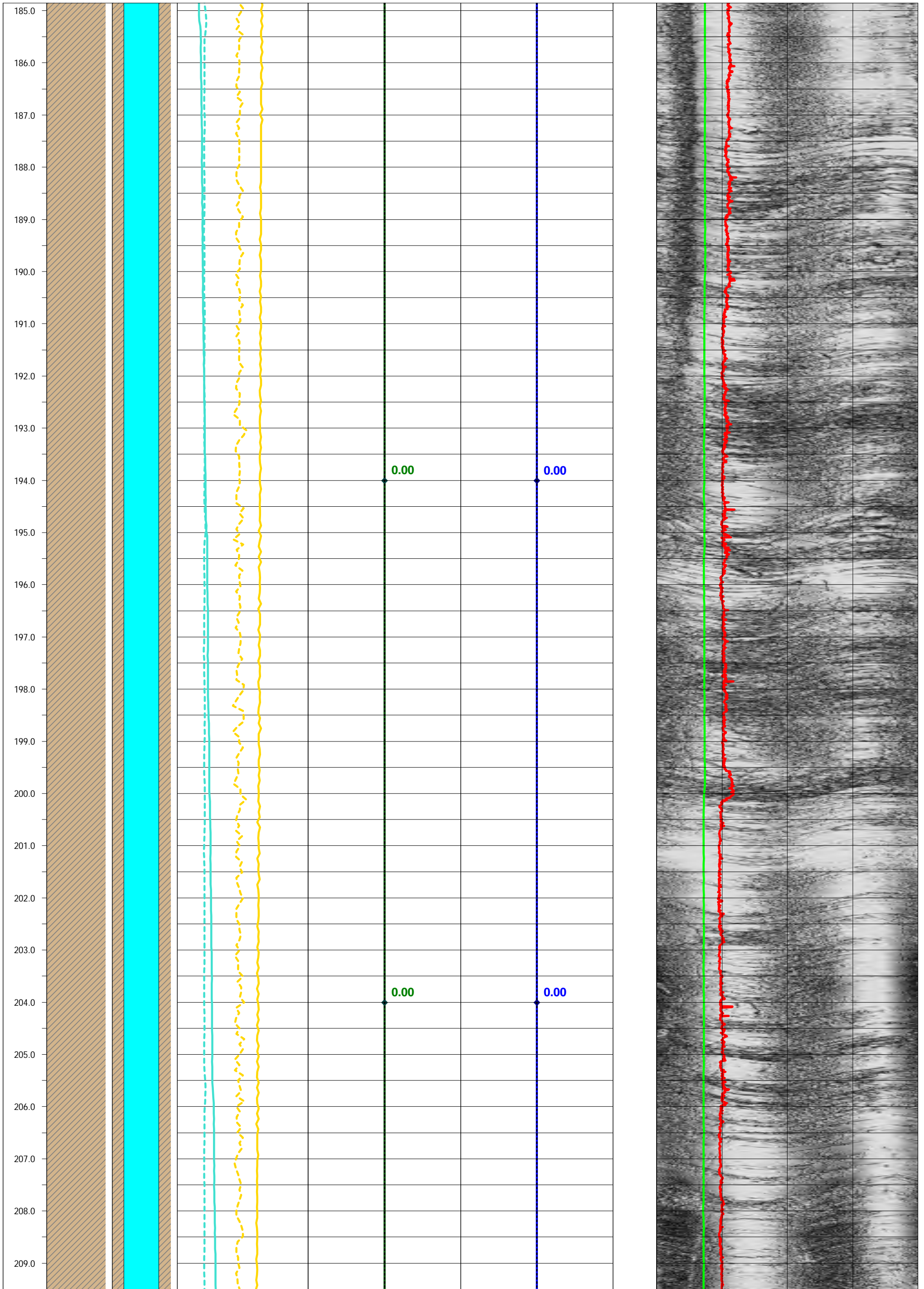


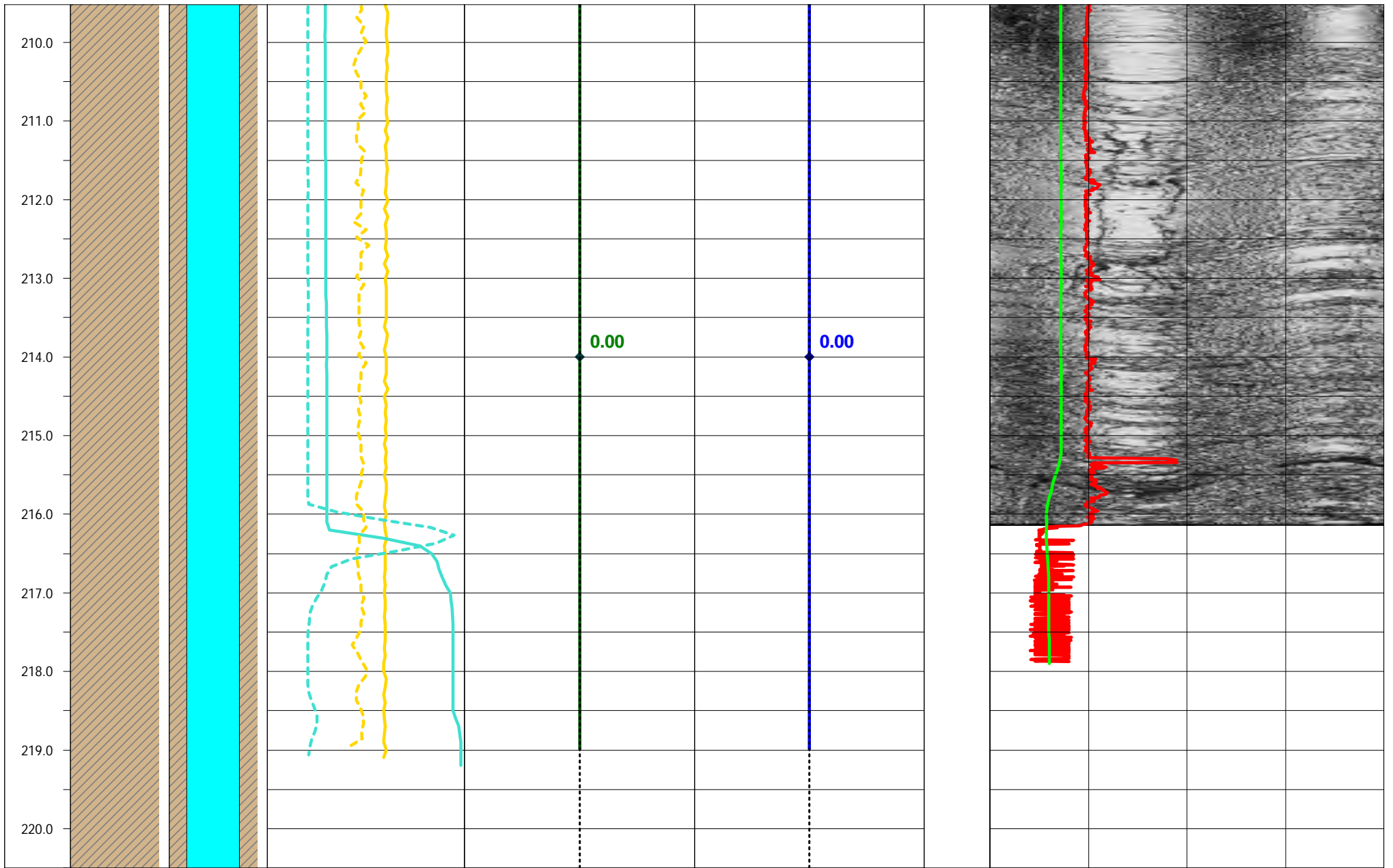












**APPENDIX D**

**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 McDonough in Smyrna, 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: 5/8/23



Plant McDonough  
Monitoring Well Locations  
May 4, 2023

Well ID	LATITUDE	LONGITUDE	NAIL NORTHING	NAIL EASTING	NAIL ELEV	PVC NORTHING	PVC EASTING	TOP PVC ELEV	ELEV AT BASE
B-125D	N33.832109	W84.476228	1394111.1	2202580.9	819.15	1394111.6	2202580.7	821.70	819.1

**APPENDIX F**

# Supplemental ASD for Combined Radium



**Richard E. Dunn, Director**

**Land Protection Branch**

4244 International Parkway  
Suite 104  
Atlanta, Georgia 30354  
404-362-2537

June 15, 2023

Jennifer McNelly  
Vice President – Environmental Affairs  
Georgia Power  
241 Ralph McGill Boulevard  
Atlanta, GA 30308

**SUBJECT: Georgia Power Company – Plant McDonough Ash Pond 1 and 2, 3/4  
Supplemental ASD for Combined Radium at Groundwater Monitoring Wells: DGWA-53, B-104D, B-105D, B-109D, B-111D, B-115D, B-122D  
GEOS Submittal: 758576**

Dear Ms. McNelly,

The Georgia Environmental Protection Division (EPD) has reviewed the *Supplemental ASD* (Alternate Source Demonstration) for *Combined Radium* submitted through GEOS on May 24, 2023 for the subject facility. This submittal builds on previous GEOS Submittals IDs: 659072, 685509 submitted on April 29, 2022, and July 27, 2022, respectively, which attributes the Statistically Significant Increases (SSIs) and Maximum Contaminant Level (MCL) exceedances for combined radium 226 and 228 in the subject wells to natural occurrence.

In accordance with the Georgia Rules for Solid Waste Management Section 394-3-4-.10(6) and based upon information included in the subject submittal and the latest semi-annual groundwater report under Submittal ID: 726842, EPD hereby approves this ASD for combined radium due to natural occurrence in groundwater wells **B-104D and B-109D only**. Wells B-104D and B-109D are the only subject wells that have an SSI for combined radium.

If you have any questions regarding this letter, please contact Mark Wescott at [mark.wescott@dnr.ga.gov](mailto:mark.wescott@dnr.ga.gov) or (404) 362-2584.

Sincerely,

Mark M Wescott, P.G.  
Geologist  
Environmental Monitoring Unit  
Solid Waste Management Program

Beverly Tipton  
Manager  
Environmental Monitoring Unit  
Solid Waste Management Program

cc: Tyler Boyles, Mike Smilley, Noelia Gangi, Lauren Petty, Tim Earle, Georgia Power Company via e-mail.  
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**REPORT**

**Supplemental ASD for Combined Radium**  
*Plant McDonough-Atkinson Ash Pond 1 and Ash Pond 2 and 3/4*

Submitted to:

**Georgia Power Company**

241 Ralph McGill Boulevard, Atlanta, Georgia 30341

Submitted by:

**WSP USA Inc.**

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GL166849622

May 22, 2023



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### APPENDIX A

Rock Core Photographs, Photomicrographs and SEM Test Results

## Certification

This *Supplemental ASD for Combined Radium*, Georgia Power Company Plant McDonough-Atkinson, Ash Pond 1 and 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 WSP 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, 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).

### WSP USA Inc.



Dawn L. Prell, CPG  
*Technical Principal, Hydrogeologist*



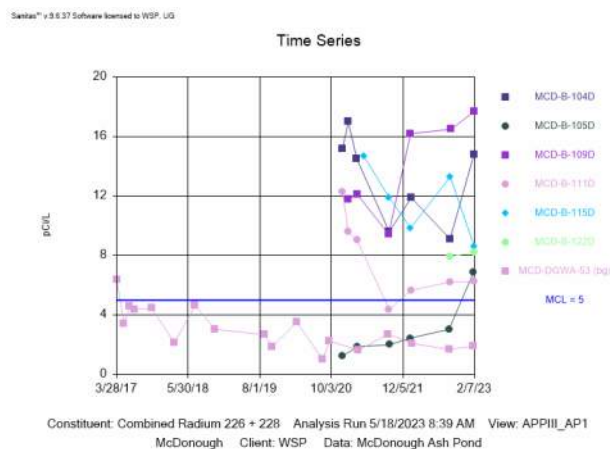
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## 1.0 INTRODUCTION

This Supplemental Alternative Source Demonstration (ASD) is an addendum to the ASD for Plant McDonough-Atkinson, prepared by Golder and submitted to Georgia Environmental Protection Division (GA EPD) on April 21, 2022, and revised and resubmitted July 26, 2022 (WSP Golder 2022). The ASD reported the results of an investigation performed to evaluate the presence of naturally occurring combined radium in soils and rock (i.e., aquifer solids) at Georgia Power Company (Georgia Power)’s Plant McDonough-Atkinson in the vicinity of Ash Pond 1 (AP-1) and Ash Pond 2 and 3/4 (AP-2 and 3/4). This addendum provides supplemental information supporting the natural occurrence of radionuclides in groundwater at the Site through analysis of rock and soil samples from the Site. Analytical results reported here affirm the natural occurrence and mobility of radium in the aquifer media at AP-1 and AP-2 and 3/4 and supports the demonstration of an alternate source for radium in groundwater at the Site.

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 Supplemental ASD, Plant McDonough AP-1 and AP-2 and 3/4 has been prepared to document an alternate source for Statistically Significant Levels (SSLs) and concentrations of combined radium (radium 226 + 228) identified at the Site during assessment monitoring. The following site monitoring wells either have documented an SSL for combined radium during assessment monitoring or have exhibited concentrations of combined radium exceeding the Maximum Contaminant Level (MCL) during delineation investigations.

Well ID	Range of Concentrations (pCi/L)
DGWA-53	1.04 - 6.36
B-104D	9.12 – 17
B-105D	1.28 - 6.88
B-109D	9.45 - 17.7
B-111D	4.39 – 12.3
B-115D	8.6 – 14.7
B-122D	7.94 – 13.1



This document satisfies the requirements of § 257.95(g)(3)(ii) and § 391 3-4-.14(23)(c) which allows the owner or operator to demonstrate that a source other than the CCR Unit has caused an SSL. This Supplemental ASD provides the following lines of evidence:

- Results of petrographic analyses from bedrock samples (including upgradient location B-53/DGWA-53) indicate presence of accessory minerals including pyrite, zircon, epidote, apatite, ilmenite, sphene (titanite), monazite, and allanite. These minerals are known to carry radioactive isotopes such as uranium, thorium, and their related daughter products including radium.
- Results of SEM analysis of the bedrock samples identified the minerals allanite, thorite and monazite in the granitic gneiss. EDS spectra from monazite show characteristic uranium and thorium peaks indicating a possible source material for uranium, thorium, and associated decay products.

- Whole-rock geochemistry showed the radiogenic elements uranium, thorium, and potassium were detected in all of the rock samples collected from the Long Island Creek Gneiss, button schist and metagraywacke.

These new lines of evidence further support those lines of evidence documented previously (WSP Golder 2022):

- Radionuclides are known to be present in regional aquifer materials and regional groundwater, based on multiple sources/references.
- 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 wells with elevated radium concentrations show low levels of CCR indicator parameters.
- Parent isotopes and quantified radionuclides have been sampled and noted in downgradient bedrock wells exhibiting detections above the MCL with some exhibiting SSLs above background.

This information has been prepared to document that the SSLs and MCL exceedances noted at wells, DGWA-53, B-104D, B-105D, B-109D, B-111D, B-115D, and B-122D are the result of natural occurrences of radionuclides in the subsurface and not the release from the CCR Unit.

## 2.0 GEOLOGICAL SETTING

The Site is situated in the Piedmont province, in a regional zone of geologic deformation, referred to as the Brevard Zone, which extends from Alabama to Virginia. Figure 1 presents the geologic map for the area around Plant McDonough. 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. 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 (Adams et al. 1980). 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) 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 1985; Langmuir 1997; 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 rock types.

Groundwater in the Piedmont Physiographic Province (Piedmont) can occur as perched water within residual soils, as an unconfined regional aquifer within residual soils and transitionally weathered materials, and as a series of confined to semi-confined, discrete, but locally interconnected aquifer systems within the bedrock. Groundwater within the overburden, which is comprised of residual soils, saprolite, and transitionally weathered



rock (TWR), is generally unconfined and the groundwater surface is generally a subdued reflection of topography. In areas where bedrock is relatively shallow and when water levels are seasonally depressed, the regional groundwater potentiometric surface also occurs within the upper zones of weathered bedrock. Groundwater elevation data from January 31, 2023 were used to develop Figure 2. Site potentiometric maps indicate that groundwater generally flows southeast across the Site from the topographic high northwest of AP-3/4 towards AP-2 and the Chattahoochee River, which is consistent with historical observations.

### **3.0 CHARACTERIZATION OF AQUIFER MATERIALS**

Radium exists in nature as one of four isotopes:  $^{223}\text{Ra}$ ,  $^{224}\text{Ra}$ ,  $^{226}\text{Ra}$ , and  $^{228}\text{Ra}$ . Most of these naturally occurring radionuclides are derived from radioactive isotopes of uranium and thorium (parent element), whose daughter products yield  $^{226}\text{Ra}$  and  $^{228}\text{Ra}$ , respectively. These parent radioactive elements are concentrated in certain minerals that are commonly found in igneous, metamorphic and sedimentary rocks across the United States including this part of Georgia. Zircon, monazite, and apatite are the most common accessory minerals in which uranium and thorium occur, which are primarily associated with felsic igneous and metamorphic rocks such as granite, gneissic granite, granitic gneiss, granitic pegmatite, and to a lesser extent vein quartz. Groundwater in the igneous and metamorphic rocks of Piedmont and Blue Ridge regions of Georgia are known to contain uranium, thorium, radium, and radon at relatively higher concentrations due to the occurrence of these radionuclides in the source rocks (Szabo et al., 2012).

#### **3.1 Sample Collection**

In October 2016, rock core samples from upgradient and downgradient areas representative of site lithologies were collected for laboratory analyses. Rock core samples were collected from upgradient borehole B-53 which later was converted to a monitoring well (DGWA-53). This location represents a background location in the Long Island Creek gneiss lithology. Two other downgradient samples from locations representing Long Island Creek Gneiss and button schist lithologies were also sampled and analyzed. Photographs of the core samples that were collected for geochemical and petrographic analysis are presented in Appendix A.

Samples were cut from each of the core samples for use in petrographic and laboratory analysis. Cuts were made perpendicular to foliation so that the samples would reflect a greater representation of metamorphic layers, and consequently, greater exposure of mineralogy and geochemistry. Uncoated, polished thin- or thick-sections were used for the petrographic and Scanning Electron Microscopy (SEM) analyses, and the remaining core ground to a powder for use in the whole-rock geochemical analyses.

#### **3.2 Petrographic Analysis**

A representative rock core samples were collected from B-53/DGWA-53, B-54, and B-57. The selected core samples were cut perpendicular to the metamorphic foliation to get the most representative mineralogy and textures for each sample. Thin section billets were then cut and sent to National Petrographic for preparation of polished thin sections. Each thin section billet was encased in clear epoxy to make a regular sample that could be used by the thin section preparation equipment.

After encasing in clear epoxy, the samples were cut using a water-based cutoff saw. After cutting, the cut surface was ground and then epoxied to a microscope slide. After drying the epoxy at 130 °C for 35 minutes, the billets were cut off from the microscope slides and the epoxied material was ground to approximately 35 microns ( $\mu\text{m}$ ). After reaching 35 $\mu\text{m}$ , the samples were then polished using a roto-polishing system.

Photomicrographs of the thin sections were taken using plane-polarized light (PPL) or cross-polarized light (XPL) using a Leica DM 2500P petrographic microscope and Leica DFC 420 digital camera in the microscopy lab at the University of West Georgia. Unless otherwise indicated, all images were taken at 2.5x magnification; the long edge of the field of view in the photographs is approximately 4.0 millimeter (mm) in length. Representative photomicrographs are shown in Appendix A.

### 3.3 Scanning Electron Microscopy – SEM

Qualitative backscattered electron imaging (BSE) and identification of potential Uranium (U)/Thorium (Th)-bearing accessory minerals in uncoated, polished thin-sections were conducted using the FEI Quanta 200 SEM instrument and attached Bruker EDX detector for semi-quantitative analysis. Analyses were completed using a 20 kV accelerating voltage on the filament and a partial vacuum of 0.45 Torr in the sample chamber. Images and spectra were collected, processed, and annotated using the Bruker ESPRIT software package. Images resulting from the SEM analyses are presented in Appendix A.

### 3.4 Whole-Rock Geochemistry

Samples were inspected visually for weathering, and weathered portions were removed by rock saw prior to grinding. Samples were placed in a drying oven at 90°C. After drying, samples were crushed in a jaw crusher with steel grinding plates to prepare the sample to 90% at a -10 mesh. After jaw crushing, the samples were split using a Jones riffle splitter to obtain a statistically representative reduce volume aliquot. The split samples were then transferred into ring and puck shatterbox where samples were reduced to a fine powder (200 mesh). A 0.5-gram sample is then weighed and placed into Teflon sample tubes for acid digestion with HNO<sub>3</sub>+HCl+HF+HClO<sub>4</sub> for 1 hour. Major, minor and trace element concentrations of the samples were determined by Inductively Coupled Plasma- Atomic Emission Spectrometer (ICP-AES) and ICP-Mass Spectrometry (MS) by American Assay Laboratory in Sparks, Nevada using their ICP-4B-UT and ICP-NF protocols.

## 4.0 ANALYTICAL RESULTS

### 4.1 Petrographic Analysis

Petrographic analysis was conducted on Long Island Creek gneiss samples collected in B-53 and B-54 indicate thin folia of biotite and less abundant muscovite in a quartzofeldspathic matrix that consists of porphyroclastic, partially recrystallized alkali feldspar, ribbon quartz, and plagioclase. Accessory minerals observed include pyrite, zircon, epidote, apatite, ilmenite, sphene (titanite), monazite, and allanite. Indication of shearing was observed in these photomicrographs, including elongated feldspar porphyroclasts and ribbon quartz.

Petrographic analysis of core B-57 represents button schist interlayered with metagraywacke and occur in fault contact and southeast of the Long Island Creek Gneiss, occupying roughly one-half of the site, and show foliated matrix of quartz, muscovite and biotite, and shearing within this lithology.

### 4.2 Scanning Electron Microscopy - SEM

Radiogenic minerals identified from SEM analyses in representative core samples from the Long Island Creek Gneiss include the following:

- Zircon
- Apatite
- Titanite
- Thorite
- Epidote
- Ilmenite
- Monazite
- Allanite

Energy dispersive spectroscopy (EDS) and BSE images of cores samples are presented as Appendix A. In the BSE images, minerals that contain elements with low atomic numbers are shown in gray tones. Minerals that contain elements with large atomic numbers, generally show up as “bright” spots on the BSE image. Because uranium and thorium have atomic numbers of 92 and 90 respectively, minerals that contain these elements are “brighter” than the surrounding matrix.

Once a mineral with high atomic number elements was identified in the BSE image, the mineral was analyzed using EDS. EDS is an analytical technique for elemental analysis based on x-ray emission caused by electrons that are dislodged from the inner orbitals by an x-ray beam from the instrument. As the inner electron is ejected from the inner shell, the electron hole is filled by electrons from higher-energy shells. This transformation from an outer to an inner shell releases energy in form of an x-ray that can be detected and quantified. The energy of the x-ray is characteristic for different elements and can be displayed on an EDS spectrum as a function of electron volts (KeV). EDS and BSE plots for each sample analyzed is presented in Appendix A.

### **4.3 Whole-Rock Geochemistry**

A summary of the elemental analysis of rock core samples from B-53, B-54, and B-57 is presented in Appendix A. The ICP-4B-UT protocol was selected because of the lower detection limit (0.1 ppm) for both uranium and thorium.

As indicated in these results, the radiogenic elements uranium, thorium, and potassium were detected in all of the rock samples collected from the Long Island Creek Gneiss, button schist and metagraywacke.

## **5.0 SOURCE DETERMINATION**

According to the USGS and EPA, naturally occurring radioactive material is present everywhere in North America. The concentration of resultant radioactivity measured in groundwater wells varies significantly, depending upon rock type and groundwater conditions. Surface mapping and boring logs from Plant McDonough indicate the presence of granitic gneiss, a rock type known to contain a naturally high concentration of minerals that carry radioactive isotopes such as uranium, thorium, and their related daughter products including radium. Furthermore, accessory minerals observed in the augen gneiss such as sphene are known to contain radionuclides and are commonly used for age dating purposes due to the presence of uranium in the crystal structure.

Based on surface geologic mapping and core logging, both B-53 and B-54 were advanced through lithologies of the Long Island Creek Gneiss, which is comprised of moderately foliated, felsic, granitic gneiss (meta-granite) with the ubiquitous occurrence of sphene and epidote occurring as accessory minerals. The mineralogy identified during petrographic analysis from samples collected in this unit is consistent with this lithology. The accessory minerals identified include zircon, apatite, titanite, pyrite, chalcopyrite, ilmenite, epidote, allanite, and monazite.

Locally, pleochroic halos around inclusions within biotite crystals support the presence of radioactive minerals in the rock. This interpretation is supported by results of SEM analysis, which identified the minerals allanite, thorite and monazite in the granitic gneiss. EDS spectra from monazite show characteristic uranium and thorium peaks indicating a possible source material for uranium, thorium, and associated decay products. This is further supported by the detection of uranium and thorium in the whole rock geochemistry. Additionally, allanite is enriched in light rare earth elements (LREE) which are commonly associated with uranium and/or thorium. Allanite is very unstable in a weathering environment and is one of the first minerals to undergo chemical weathering under saturated groundwater conditions. Based on the rock mineralogy and whole rock geochemistry,

the granitic gneiss bears naturally occurring, radioactive minerals in the bedrock upgradient of the ponds at Plant McDonough. The uranium and thorium-bearing minerals in the granitic gneiss and similar lithologies are the source of radium in groundwater at the Site.

## 6.0 ASD SUMMARY

In summary, this document satisfies the requirements of § 257.95(g)(3)(ii) and § 391 3-4-.14(23)(c) which allows the owner or operator to demonstrate that a source other than the CCR Unit has caused an SSL. As presented here and in the prior ASD (WSP Golder 2022), multiple lines of evidence supporting the natural source of combined radium are as follows:

- Results of petrographic analyses from bedrock samples (including upgradient location B-53/DGWA-53) indicate presence of accessory minerals including pyrite, zircon, epidote, apatite, ilmenite, sphene (titanite), monazite, and allanite. These minerals are known to carry radioactive isotopes such as uranium, thorium, and their related daughter products including radium.
- Results of SEM analysis of the bedrock samples identified the minerals allanite, thorite and monazite in the granitic gneiss. EDS spectra from monazite show characteristic uranium and thorium peaks indicating a possible source material for uranium, thorium, and associated decay products.
- Whole-rock geochemistry showed the radiogenic elements uranium, thorium, and potassium were detected in all of the rock samples collected from the Long Island Creek Gneiss, button schist and metagraywacke.

And as documented previously,

- Radionuclides are known to be present in regional aquifer materials and regional groundwater, based on multiple sources/references.
- 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 wells with elevated radium concentrations show low levels of CCR indicator parameters.
- Parent isotopes and quantified radionuclides have been sampled and noted in downgradient bedrock wells exhibiting detections above the MCL with some exhibiting SSLs above background.

This information has been prepared to document that the SSLs and MCL exceedances noted at wells, DGWA-53, B-104D, B-105D, B-109D, B-111D, B-115D, and B-122D are the result of natural occurrences of radionuclides in the subsurface and not a release from the CCR Unit.

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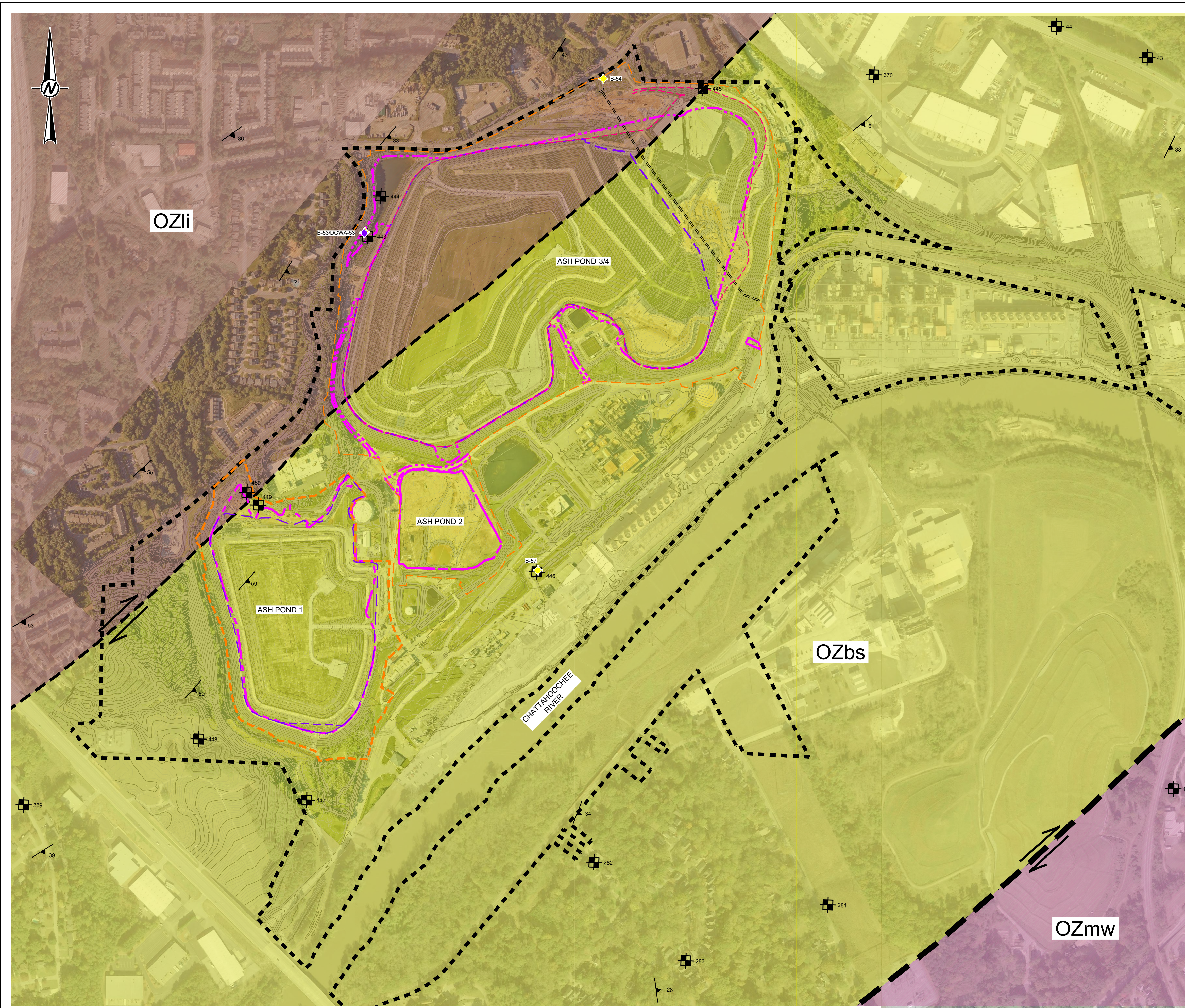
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## FIGURES



- LEGEND**
- 880 EXISTING CONTOURS (SEE REFERENCE 2)
  - PROPERTY BOUNDARY (SEE REFERENCE 1)
  - APPROXIMATE PRE-CLOSURE CCR LIMITS
  - FINAL CLOSURE CCR LIMITS
  - PERMIT BOUNDARY

- GEOLOGIC LEGEND**
- OZli - BIOTITE GNEISS (LONG ISLAND)
  - OZbs - PHYLONITE, BUTTON SCHIST, MYLONITE, AND MYLONITE BIOTITE GNEISS
  - OZmw - BREVARD ZONE MYLONITE - WHITE
  - INTERPRETED GEOLOGIC CONTACT
  - FAULT (STRIKE / SLIP) - APPROXIMATE LOCATION
  - STRIKE AND DIP OF FOLIATION
  - GEOLOGIC MAP STATION
  - UPGRADIENT WELL
  - PIEZOMETERS

**NOTE**

1. DATA PRESENTED FOR CCR UNIT AP-1 IS INCLUDED FOR REFERENCE ONLY. THIS DATA SHOULD NOT BE CONSIDERED FOR PERMITTING OF CCR UNIT AP-2 AND AP-3/4.

- REFERENCES**
1. APPROXIMATE PROPERTY BOUNDARY PROVIDED BY SOUTHERN COMPANY SERVICES (2017).
  2. THE EXISTING TOPOGRAPHY, CONTOUR ELEVATIONS AND PHOTOGRAPHY FOR THE ASH PONDS 1 THROUGH 4 AREAS WERE PROVIDED BY GEORGIA POWER. THE DATE OF THE SURVEY PROVIDED AND SHOWN ON THIS SET OF PLANS, ON THE AP- 1 THROUGH 4, IS AUGUST 31, 2022. DATE OF PHOTOGRAPHY AUGUST 31, 2022. THE TOPOGRAPHIC CONTOUR INTERVALS IS 1 FOOT. THE EXISTING TOPOGRAPHY AND CONTOUR ELEVATIONS FOR THE SURROUNDING AREAS OF ASH PONDS 1 THROUGH 4 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, AT THE SURROUNDING AREAS, 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 FOR SURROUNDING AREAS OF ASH PONDS 1 THROUGH 4.
  3. GEOLOGIC MAPPING PERFORMED BY PETROLLOGIC SOLUTIONS, OCTOBER 2016.



Path: \\atlantia\cadd\Southern Company\1777449 Plant McDonough\Permitting\MAP\Production\1 File Name: GVA- AP-204 GEOLOGIC MAP.dwg

CLIENT  
**GEORGIA POWER COMPANY**  
 PLANT MCDONOUGH-ATKINSON

PROJECT  
**SUPPLEMENTAL ALTERNATE SOURCE DEMONSTRATION**  
 PLANT MCDONOUGH ASH POND 1, AND ASH POND 2 AND 3/4

TITLE  
**GEOLOGIC MAP**

CONSULTANT		YYYY-MM-DD	2018/05/04
DESIGNED		SEP	
PREPARED		DJC	
CHECKED		KNJ	
REVIEWED / APPROVED		RPK / GLH	



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







**APPENDIX A**

**Rock Core Photographs, Photomicrographs and SEM  
Test Results**

Southern Company Service: Plant McDonough	
<p><b>PHOTO 1</b> B-53 16.0 feet</p>	 A photograph of a light-colored, irregular rock sample. The sample is marked with red handwritten text: "B53" and "16'-16.5". A GSA metric ruler is placed horizontally above the sample for scale. The ruler shows centimeter and inch markings.
<p><b>PHOTO 2</b> B-53 24.7 feet</p>	 A photograph of a light-colored, irregular rock sample. The sample is marked with red handwritten text: "B53" and "24'-24.9". A GSA metric ruler is placed horizontally below the sample for scale. The ruler shows centimeter and inch markings.

Southern Company Service: Plant McDonough	
<p><b>PHOTO 3</b> B-54 32.5 feet</p>	 A photograph of a light-colored, irregular rock sample. The sample is marked with red handwritten text: "B54" and "32.5". A GSA metric ruler is placed horizontally above the sample for scale. The ruler shows centimeter and inch markings.
<p><b>PHOTO 4</b> B-57 44.0 feet</p>	 A photograph of a light-colored, irregular rock sample. The sample is marked with red handwritten text: "B57" and "44.0". A GSA metric ruler is placed horizontally above the sample for scale. The ruler shows centimeter and inch markings.

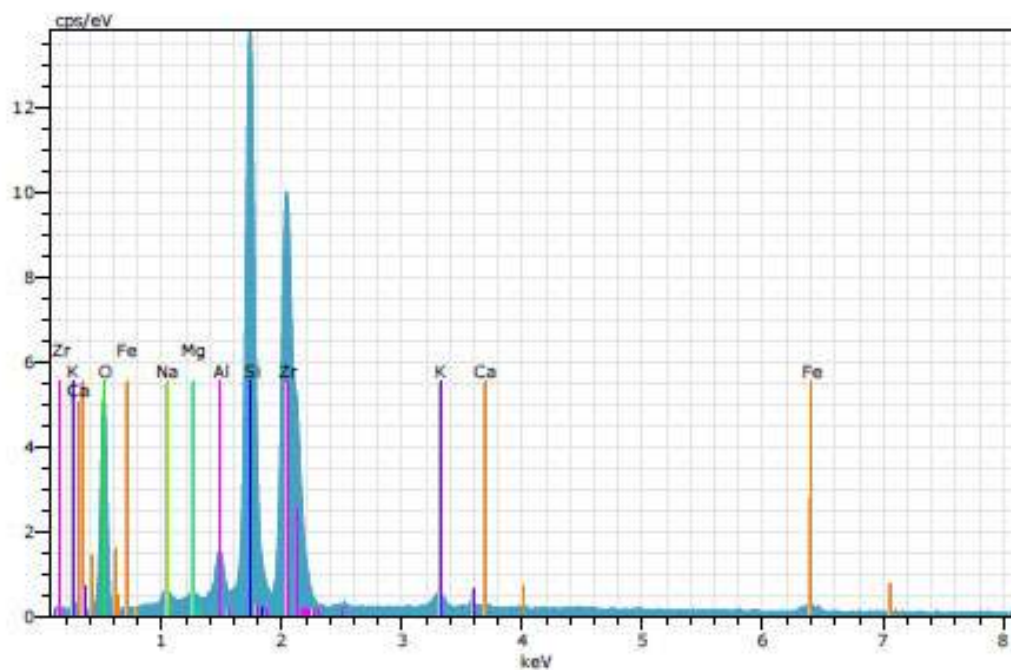
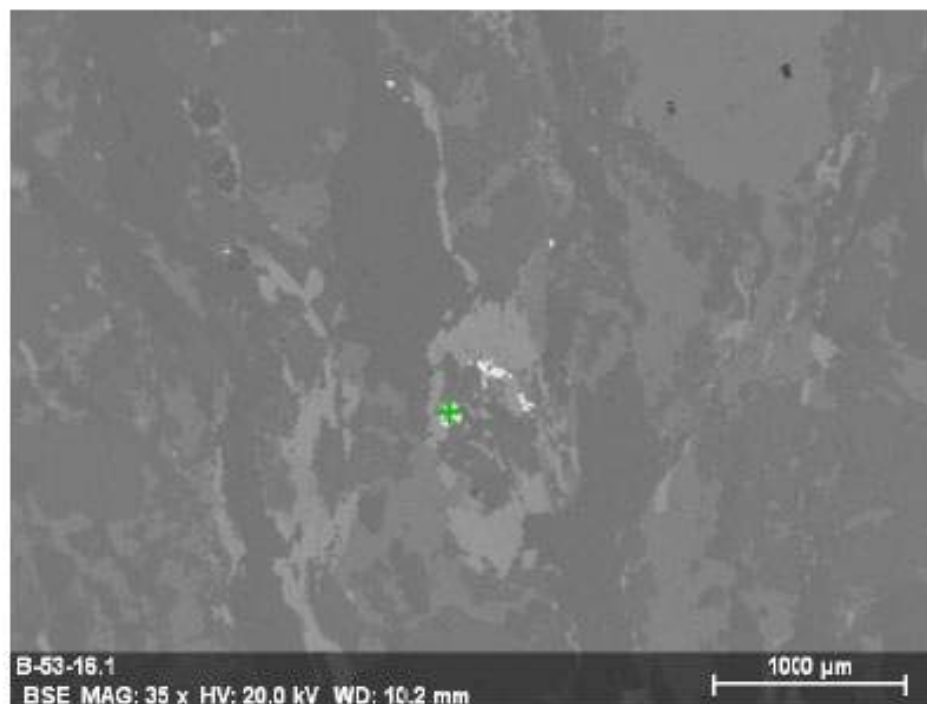


**PHOTOMICROGRAPH SAMPLE B-53**  
**16.1 feet**

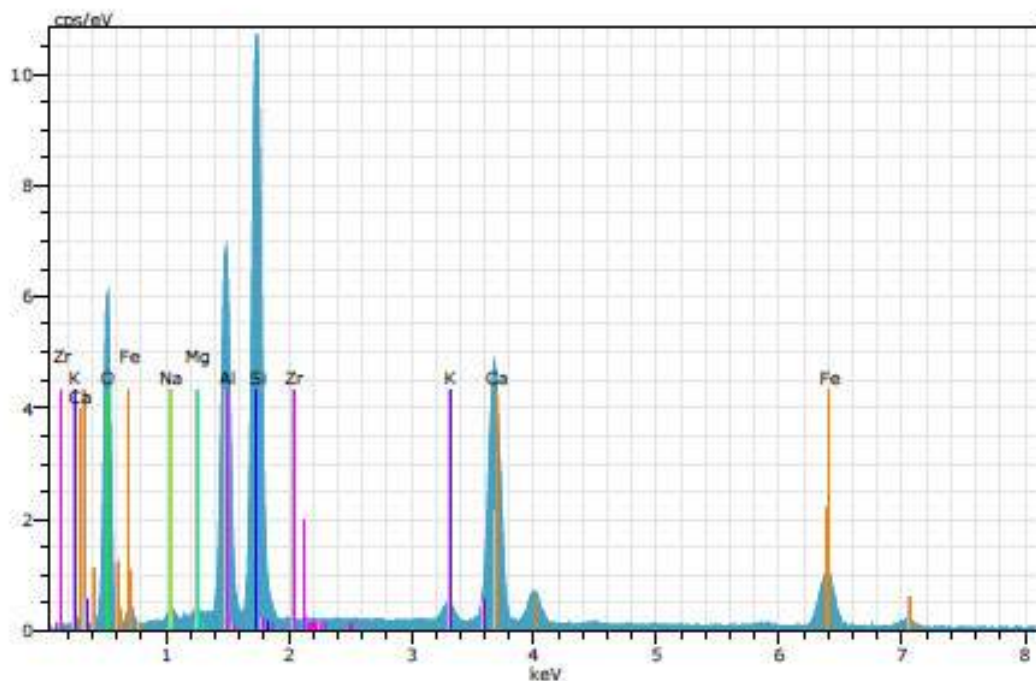
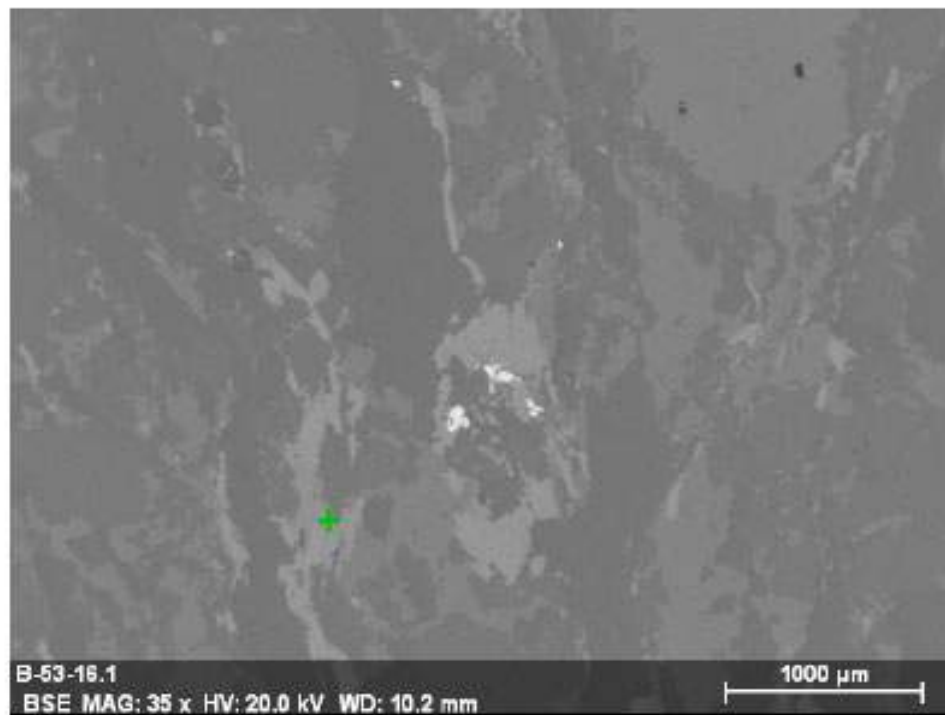


**B-53 16.1':** Representative photomicrograph of matrix of sample. Thin folia of biotite (dark brown) in a quartzofeldspathic matrix that includes porphyroclastic and partially recrystallized alkali feldspars. High-relief minerals include epidote and zircon.

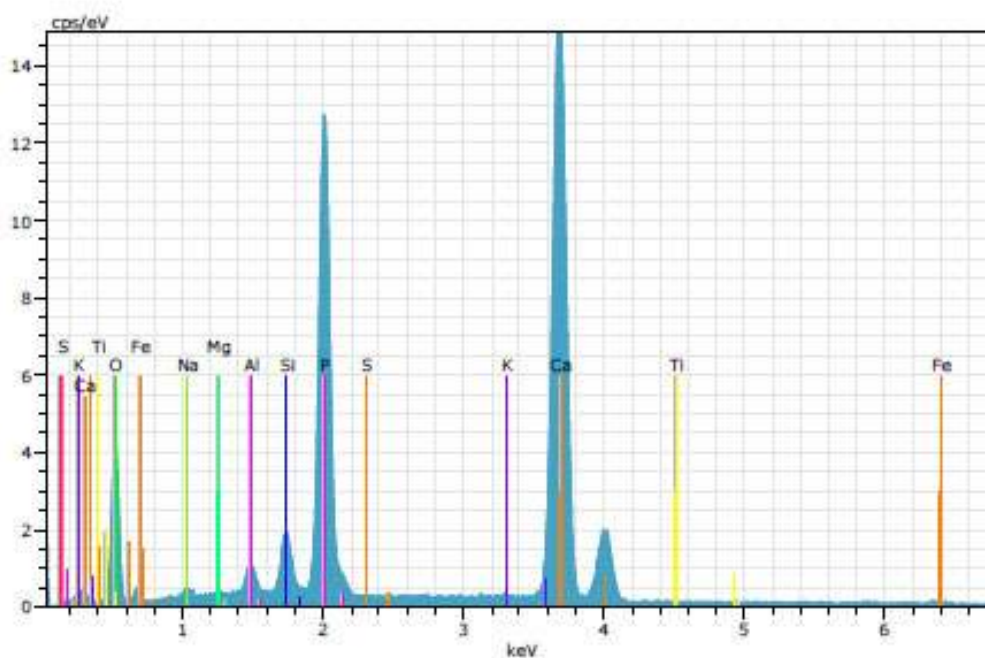
Accessory phases in this sample include pyrite, zircon, epidote, apatite, and monazite.



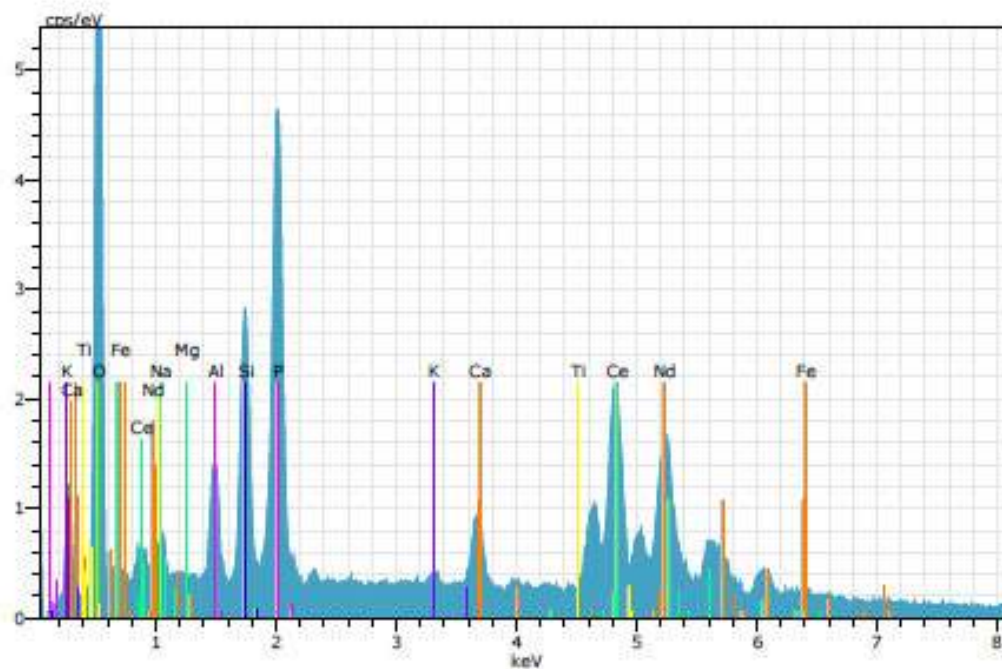
B-53 16.1': BSE image (top) and EDS spectrum (bottom) for zircon in Long Island Creek Gneiss; green crosshair on BSE image marks analysis location.



B-53 16.1': BSE image (top) and EDS spectrum (bottom) for epidote in Long Island Creek Gneiss; green crosshair on BSE image marks analysis location.



B-53 16.1': BSE image (top) and EDS spectrum (bottom) for apatite in Long Island Creek Gneiss; green crosshair on BSE image marks analysis location.



B-53 16.1': BSE image (top) and EDS spectrum (bottom) for monazite in Long Island Creek Gneiss; green crosshair on BSE image marks analysis location.

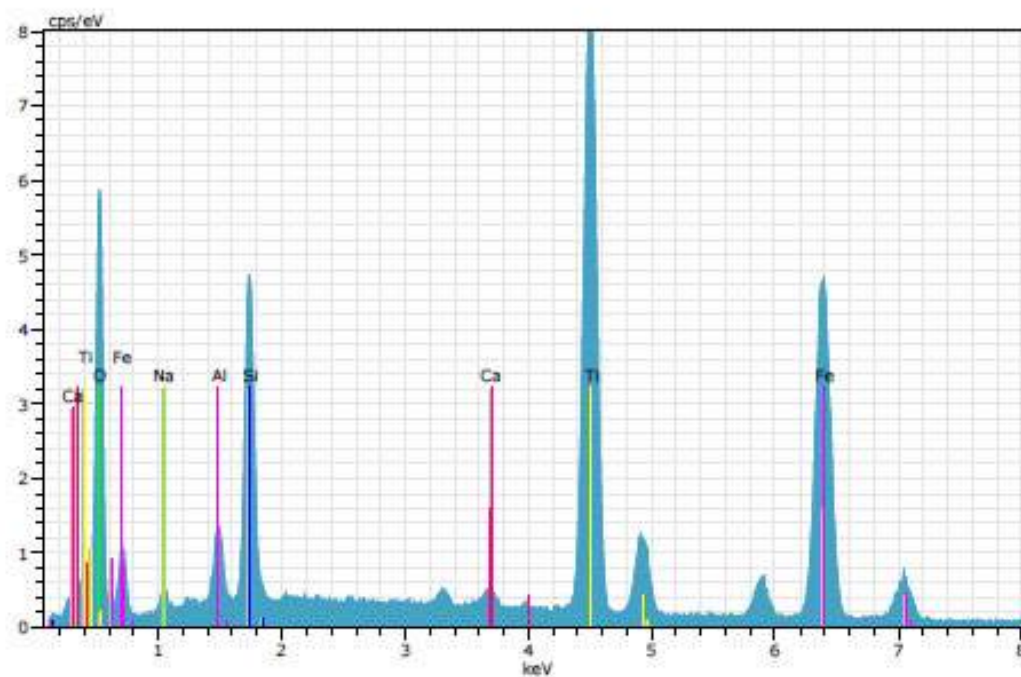
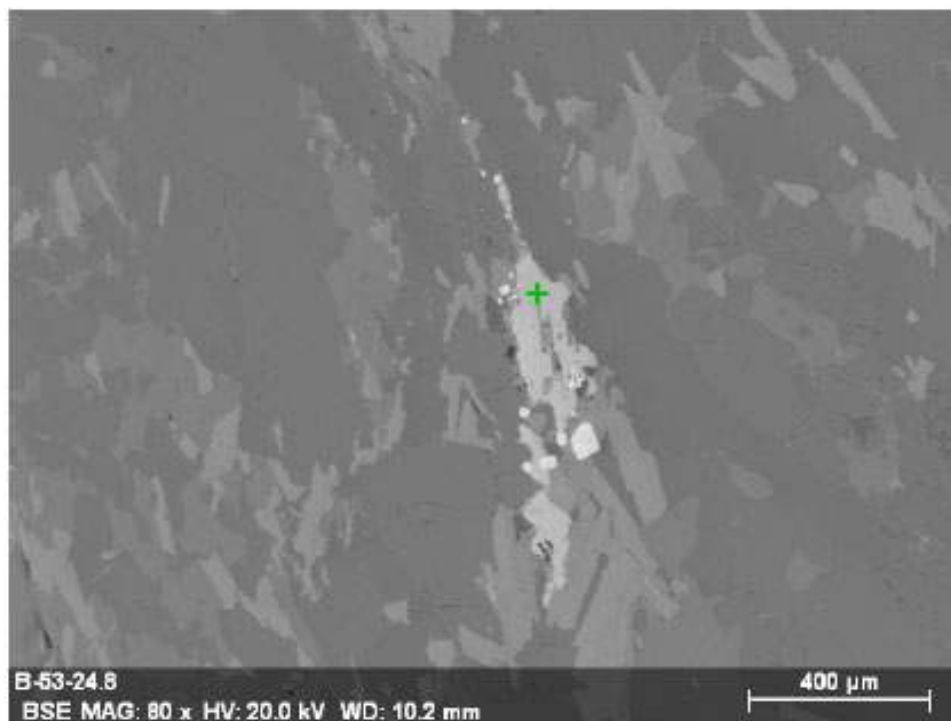


**PHOTOMICROGRAPH SAMPLE B-53**  
**24.8 feet**

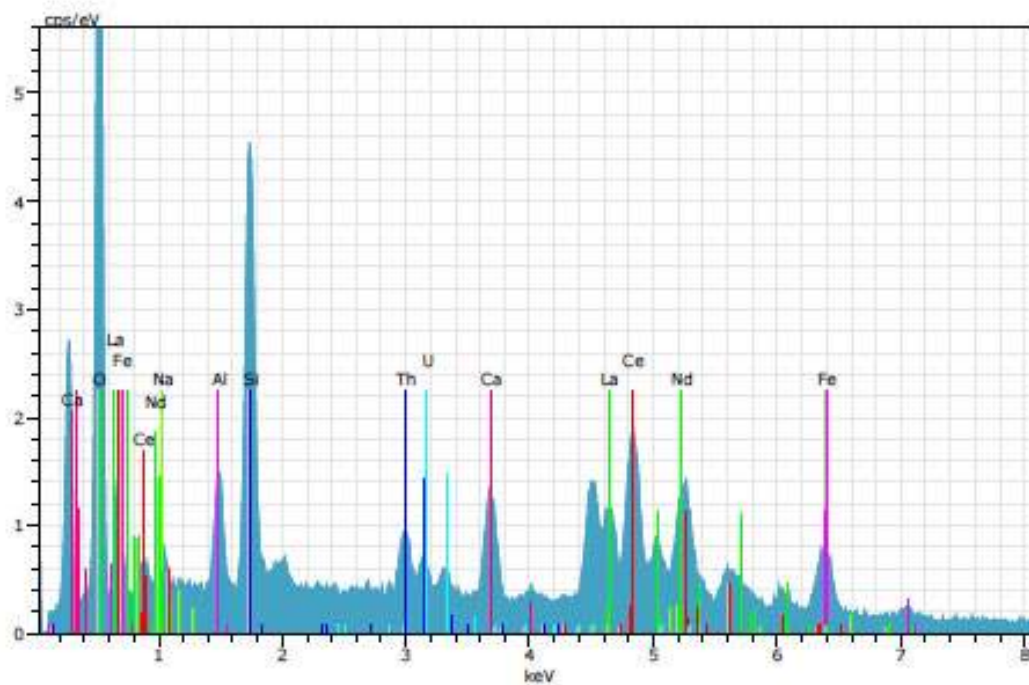


**B-53 24.8':** Representative photomicrograph of sample matrix, with thin folia of biotite mica (and less abundant muscovite) wrapping around porphyroclastic, partially recrystallized alkali feldspars, ribbon quartz, and small plagioclase.

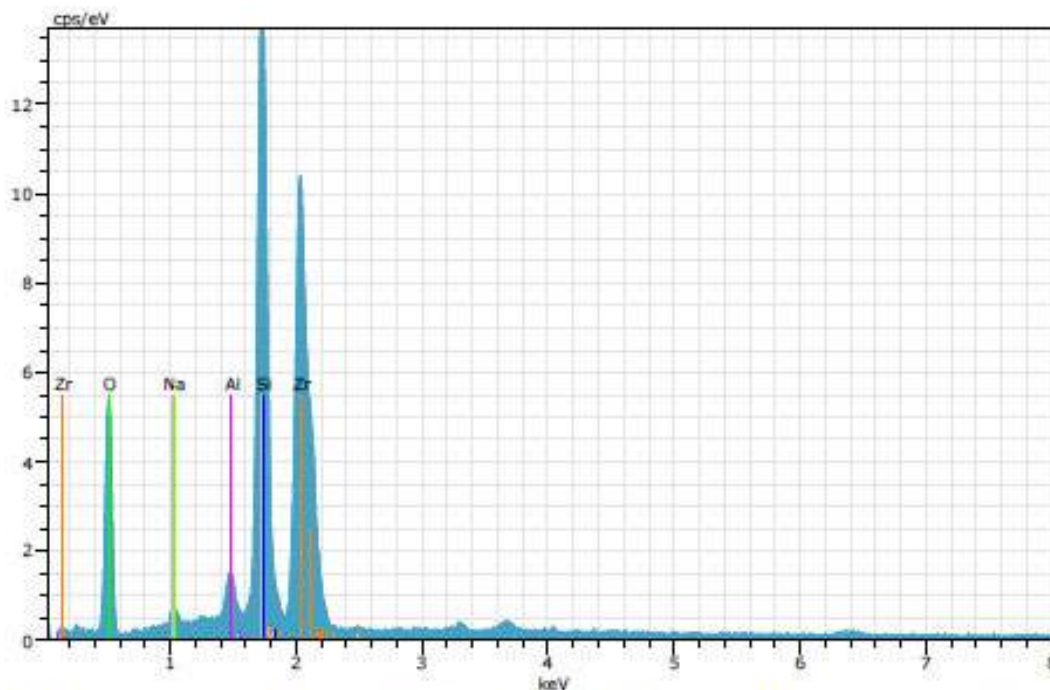
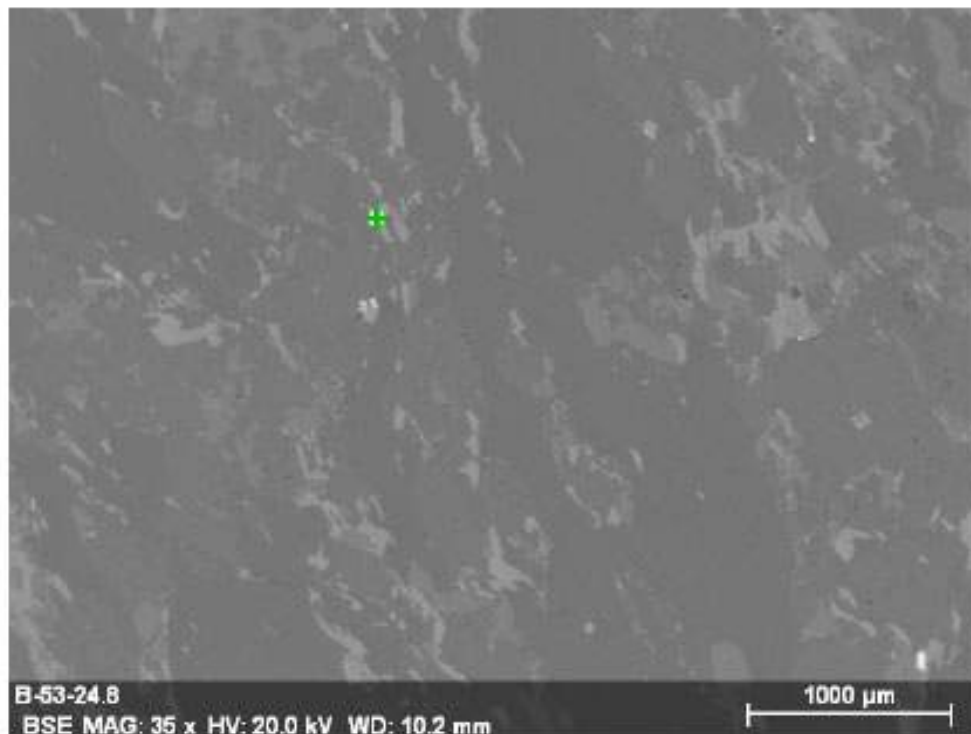
Accessory minerals in this sample include ilmenite, zircon, apatite, and allanite.



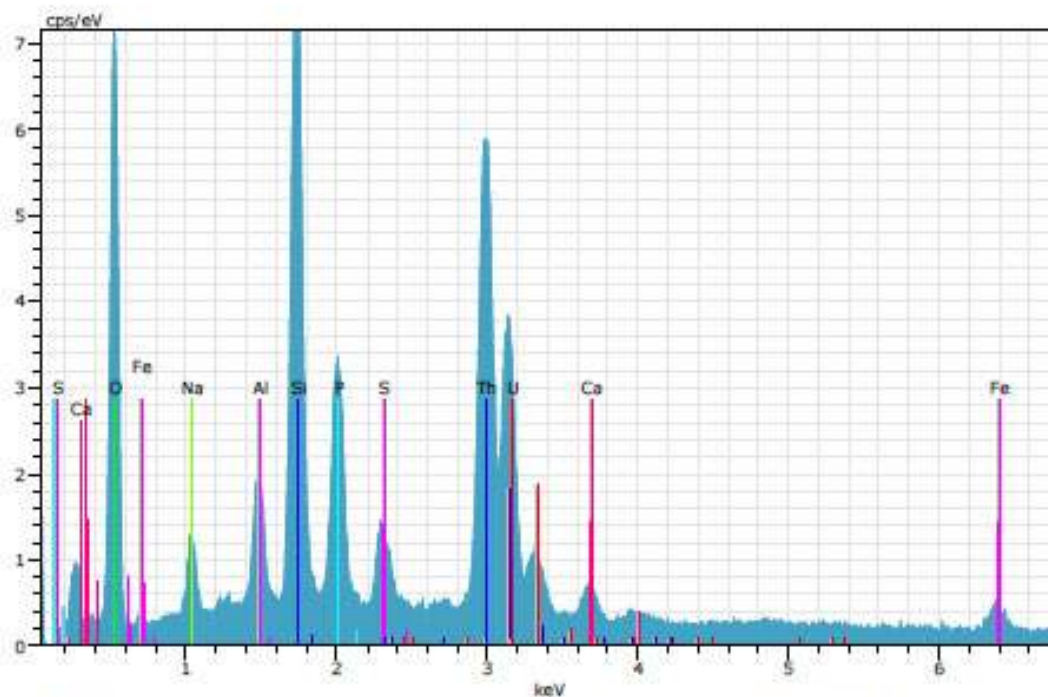
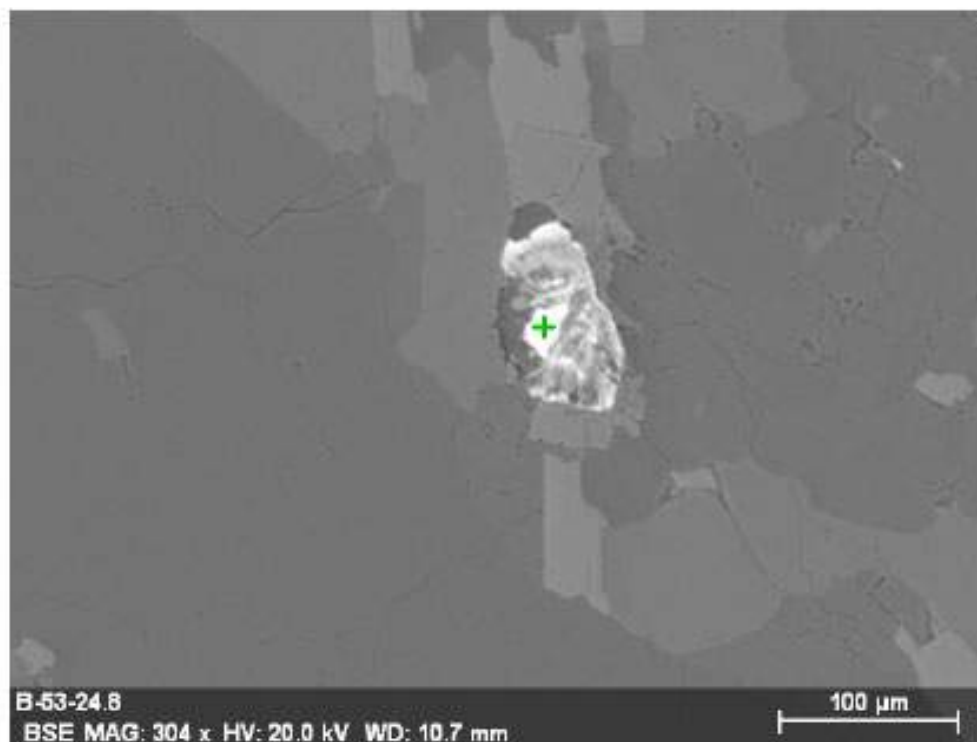
B-53 24.8': BSE image (top) and EDS spectrum (bottom) for illmenite in Long Island Creek Gneiss; green crosshair on BSE image marks analysis location.



B-53 24.8': BSE image (top) and EDS spectrum (bottom) for allanite in Long Island Creek Gneiss; green crosshair on BSE image marks analysis location.

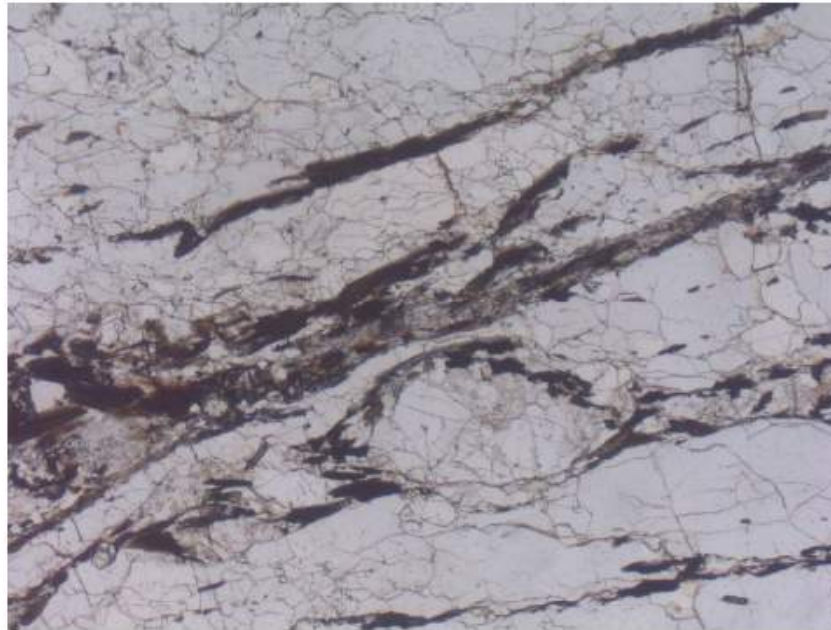


B-53 24.8': BSE image (top) and EDS spectrum (bottom) for zircon in Long Island Creek Gneiss; green crosshair on BSE image marks analysis location.



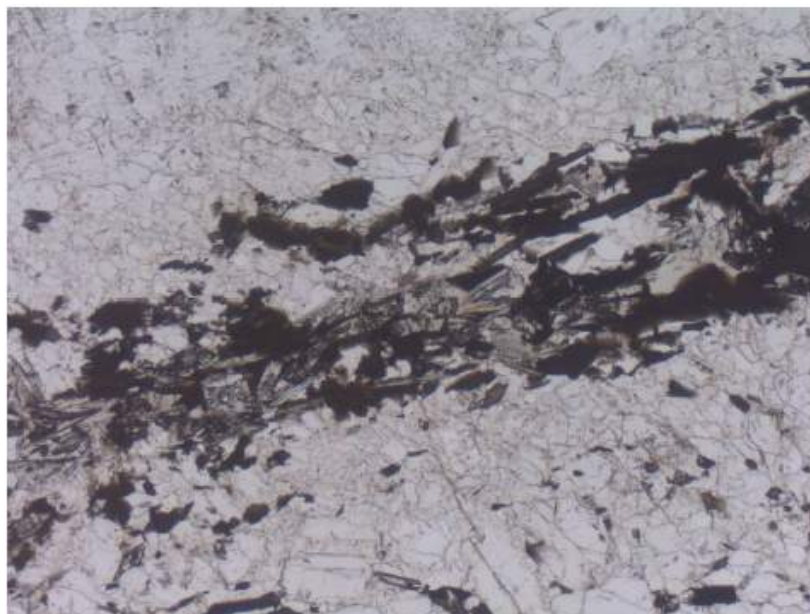
B-53 24.8': BSE image (top) and EDS spectrum (bottom) for thorite in Long Island Creek Gneiss (appears metamict); green crosshair on BSE image marks analysis location.

**PHOTOMICROGRAPH SAMPLE B-54**  
32.5 feet

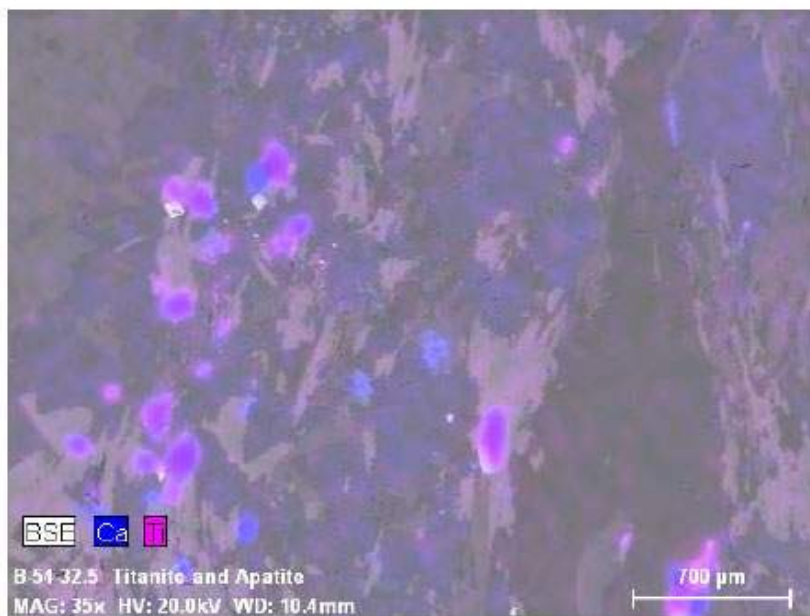


**B-54 32.5':** This sample contains sheared porphyroclasts of feldspar (small example at center of photo), hosted in a matrix of recrystallized quartz ribbons, biotite, and accessory epidote, titanite, and zircon.

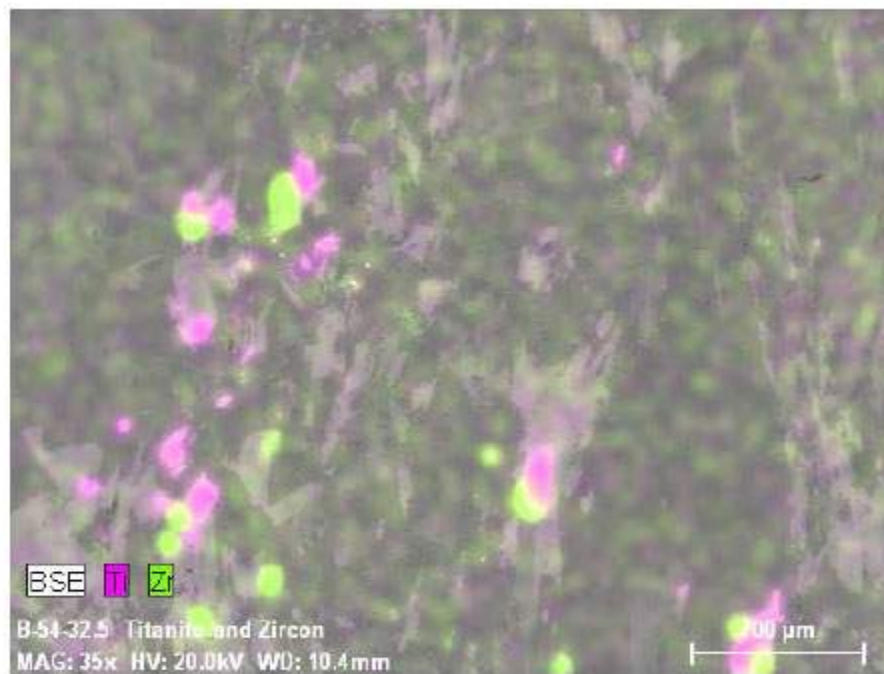
**PHOTOMICROGRAPH SAMPLE B-54**  
32.5 feet



**B-54 32.5':** This sample contains a small cluster of high-relief titanite and epidote within mica-defined foliation.

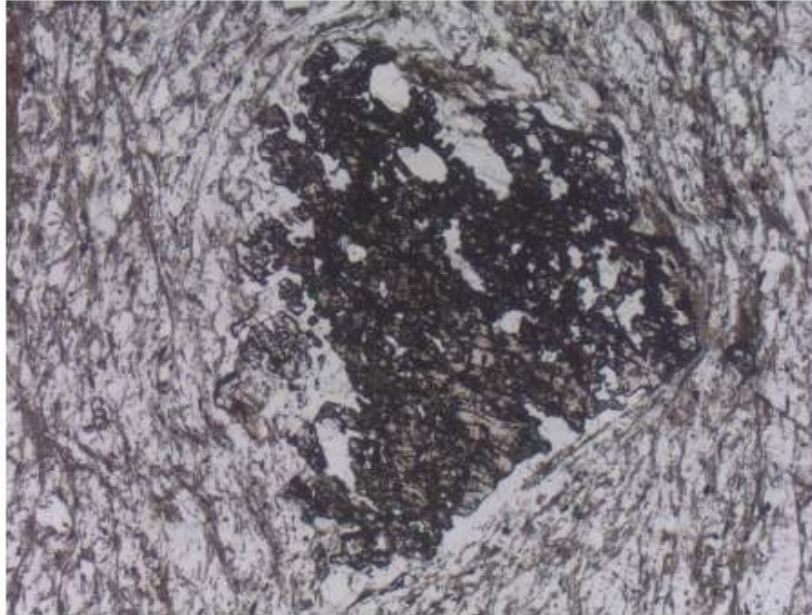


**B-54 32.5'**: False color SEM-EDS chemical map of Ca (blue) and Ti (purple) superimposed on BSE base image; element maps highlight the locations of Apatite (blue) and Titanite (violet) within this area of the sample.



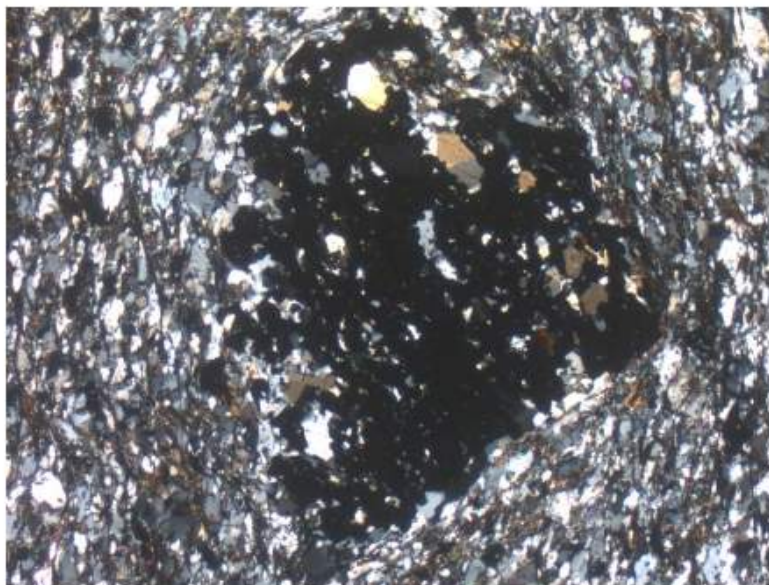
**B-54 32.5'**: False color SEM-EDS chemical map of Ti (purple) and Zr (light green) superimposed on BSE base image; element maps highlight the locations of Titanite (purple) and Zircon (light green and small – note that due to co-location of Zr and P within the energy spectrum, larger apatites are also highlighted) within this area of the sample.

**PHOTOMICROGRAPH SAMPLE B-57**  
**44.0 feet**



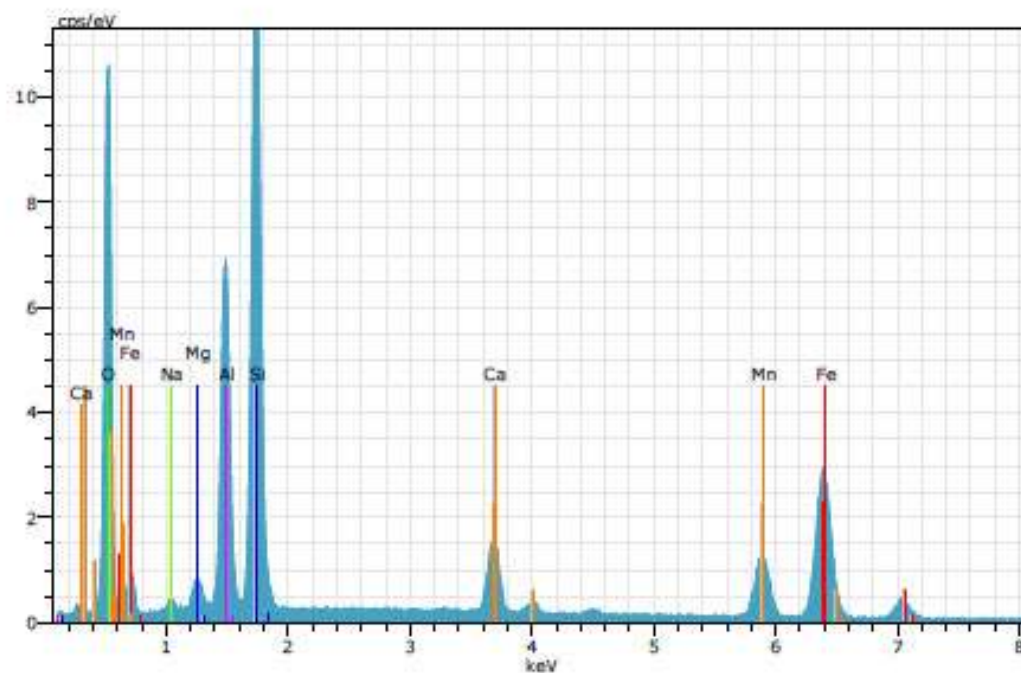
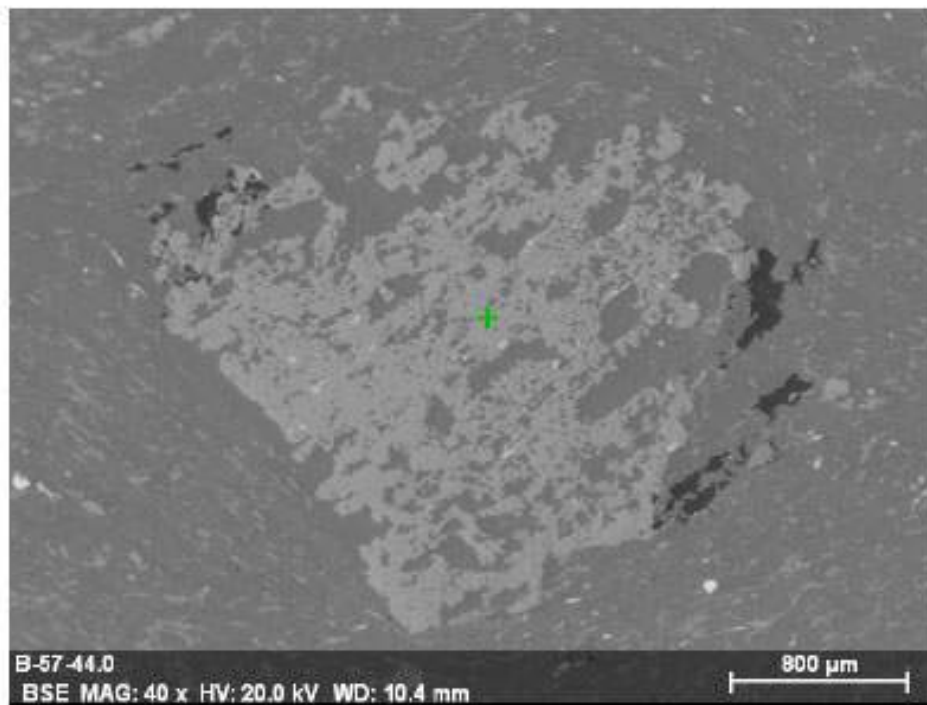
**B-57 44.0'**: Poikiloblastic, anhedral garnet; matrix foliation defined by alignment of fine-grained micas wraps around garnet crystal.

**PHOTOMICROGRAPH SAMPLE B-57**  
**44.0 feet**



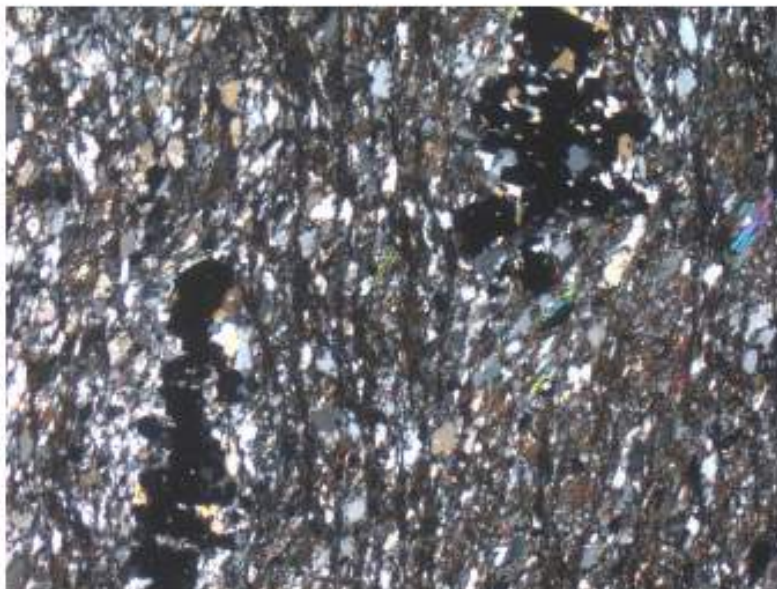
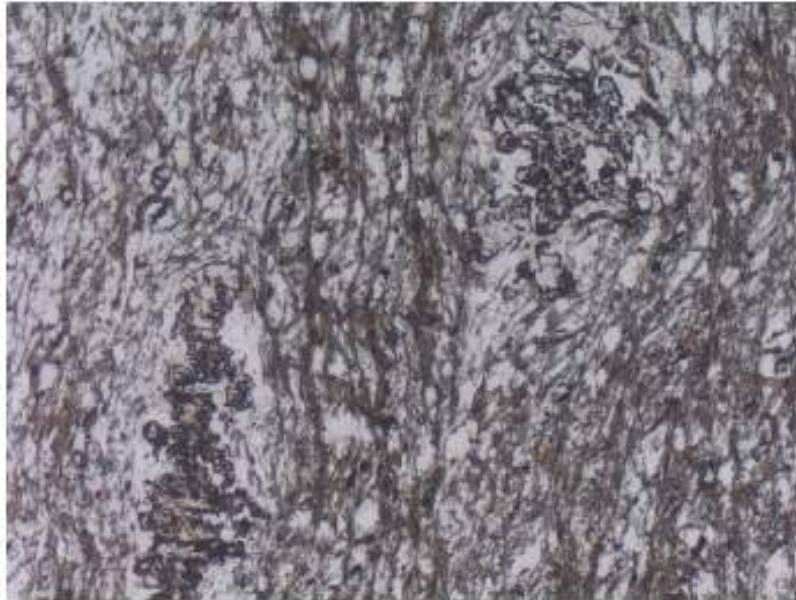
**B-57 44.0'**: Same garnet as above; cross-polarization. Possible alignment of quartz inclusions within garnet defines a fabric that is oblique to matrix foliation.





**B-57 44.0':** BSE (top) and EDS spectrum (bottom) of garnet core, green crosshair on BSE image marks analysis location.. Garnet composition is almandine-rich, with significant grossular and spessartine component.

**PHOTOMICROGRAPH SAMPLE B-57**  
**44.0 feet**



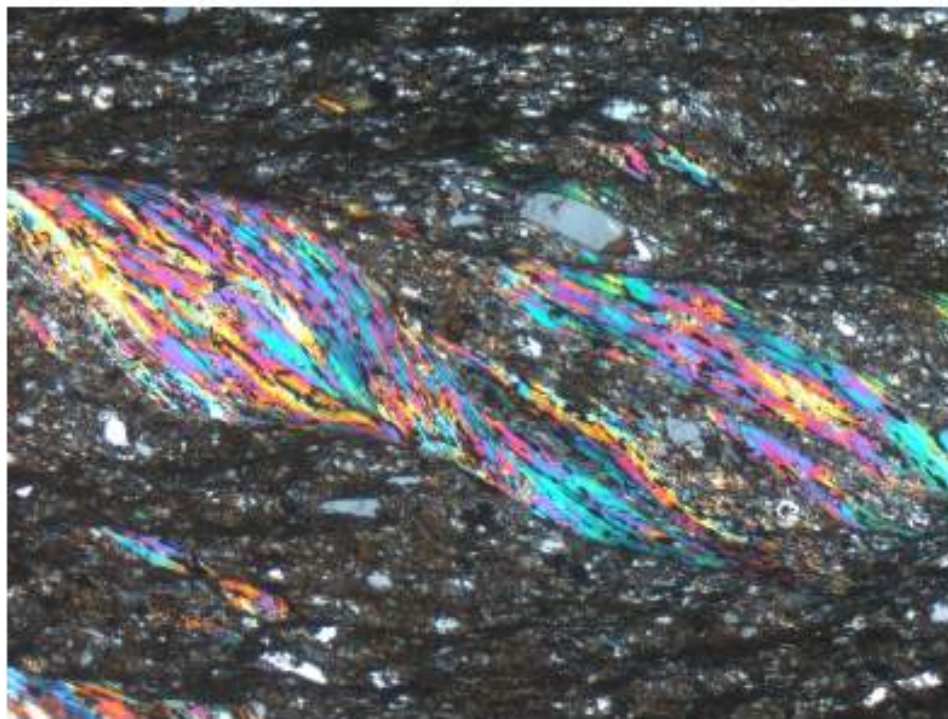
PPL (top) and XPL (bottom) of two anhedral, poikiloblastic garnets. Note increase in abundance of quartz and lack of micas in proximity of garnet, which may suggest local depletion of Al and other nutrients consumed during garnet-forming reaction.

**PHOTOMICROGRAPH SAMPLE B-57**  
**44.0 feet**



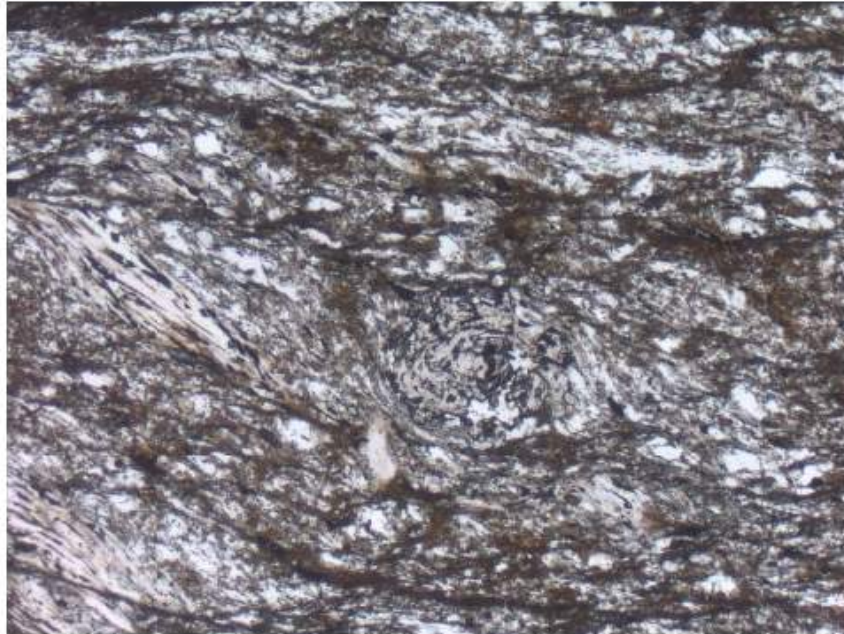
PPL image (5X magnification) of small (sub-mm) subhedral garnet poikiloblast. Note change in inclusion density from core-to-rim.

**PHOTOMICROGRAPH SAMPLE B-57**  
**50.5 feet**

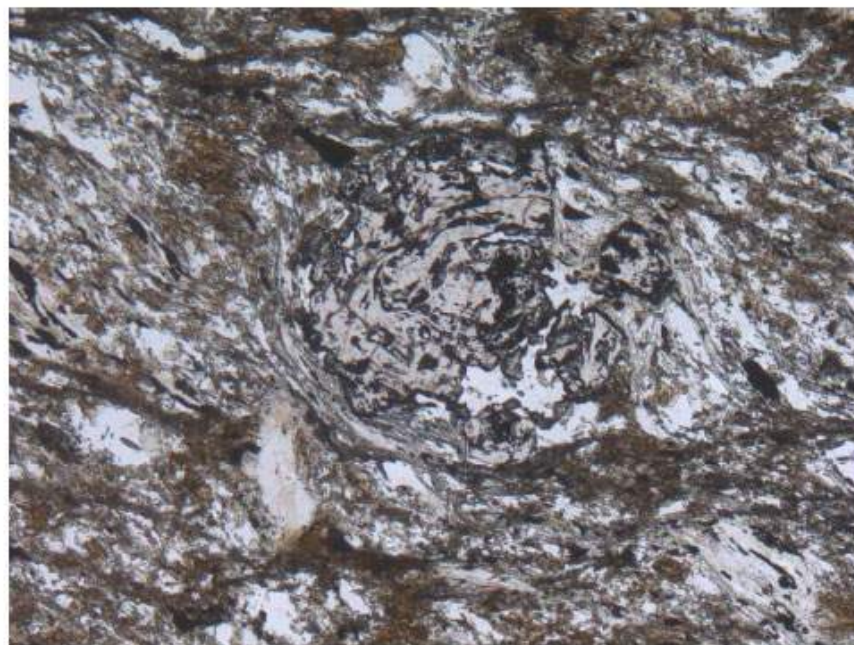


PPL (top) and XPL (bottom) of mica "fish" in sheared button schist.

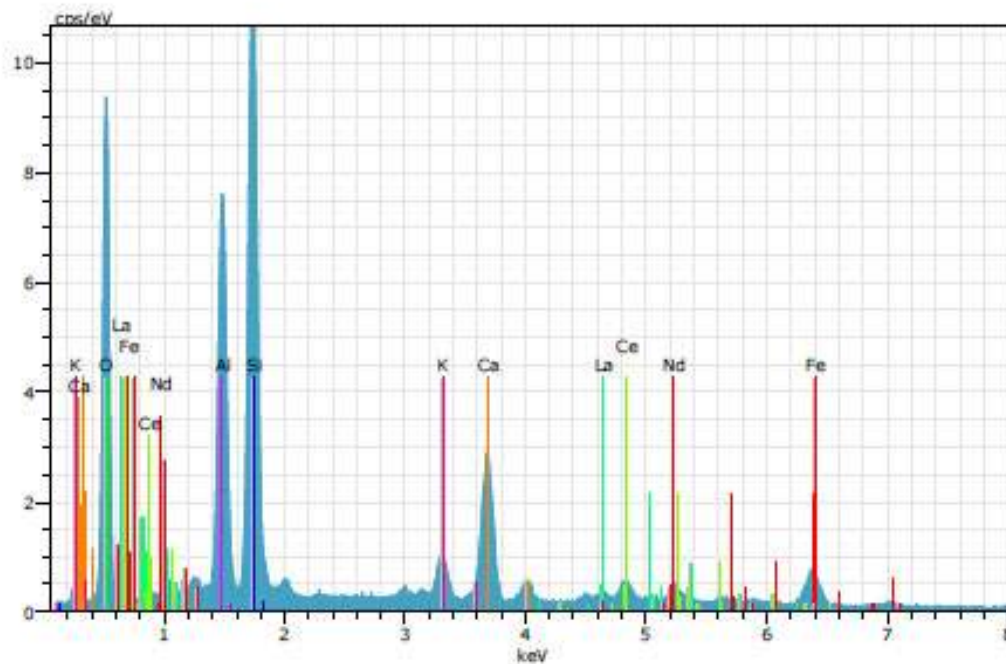
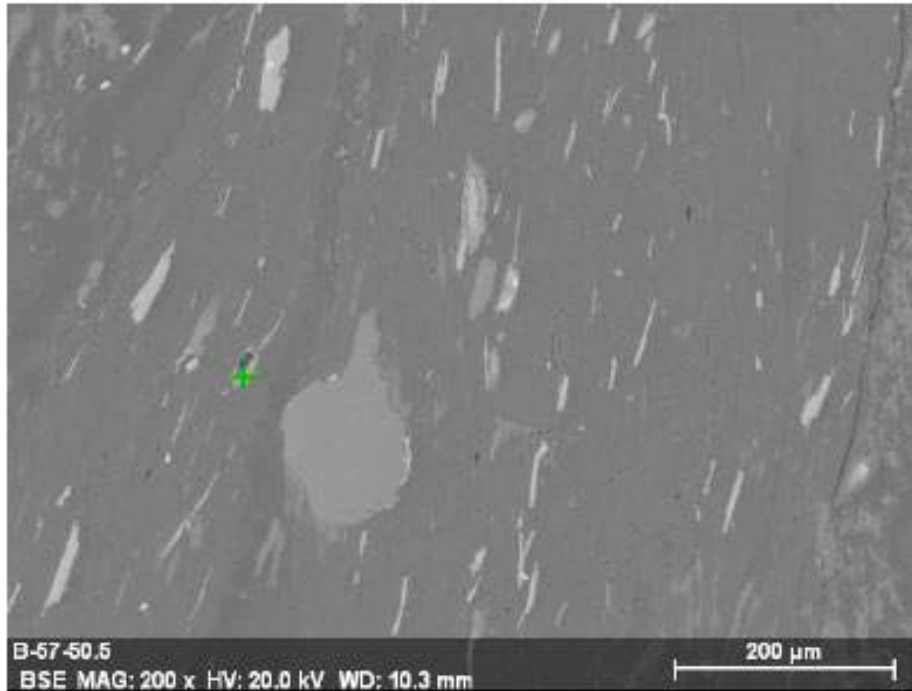
PHOTOMICROGRAPH SAMPLE B-57  
50.5 feet



Small (< 1 mm) garnet (center of photo).



B-57 50.5': 5X magnification image of garnet in previous image. Note high density of fine-grained inclusions (quartz, opaques) that appear to define a complex, rotated internal fabric. This suggests syndeformational growth of the garnet in this sample.



**B-57 50.5':** BSE and EDS spectrum of Epidote with allanite component (presence of LREE). Also note apparent sheared apatite (lower center-left) and Epidote (with LREE) rimmed by apatite (top-center). Other bright minerals in BSE include ilmenite, zircon, pyrite, and chalcopyrite.

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